

TRANSNET



Academy

# TRANSNET ACADEMY FACULTY OFFERINGS



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FACULTY  
OF RAIL



| COURSE NAME                                             | ENTRY REQUIREMENTS                                                                                                                      | DURATION                                                                                                                                         | COURSE DESCRIPTION                                                                                                                                                                                                                                   | ASSESSMENT METHOD                                                                                 | QUALIFICATION /NQF                     | CAMPUS LOCATION/ONLINE                 | CONTACT PERSON                                         |
|---------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|----------------------------------------|----------------------------------------|--------------------------------------------------------|
| Train Driver - Initial Training                         | <ul style="list-style-type: none"> <li>- Maths and Science</li> <li>- Vienna test System (VTS)</li> <li>- Medical Assessment</li> </ul> | Number of modules: +/- 200 Modules<br>Duration per module: As per the attached Matrix<br>Total course duration: +/- 217 days As per Depot Matrix | Objective:<br>To operate a Train Module:<br>- Train Working Rules,<br>- Brake system,<br>- Locomotive<br>Theory:<br>- Train Working Rules,<br>- Brake system,<br>- Locomotive<br>Practical:<br>Standard Operating Procedure<br>Area Process Training | Theory:<br>Online Assessment<br>Practical:<br>Final Integrated Summative Assessment (FISA)        | Train Driver Qualification and Licence | All Faculty of Rail Campuses           | Ntombifuthi Mlaudzi<br>Magezi Maluleke<br>Jerrin Mohan |
| Train Driver - CPL Continuous Professional Learning     | Qualification & licence                                                                                                                 | Number of modules: 3 Modules<br>Duration per module: As per the CPL Matrix<br>Total course duration: 4 Events every 24 months                    | Objective:<br>To re- licence Train Operators                                                                                                                                                                                                         | - Theory assessment<br>- Practical assessment<br>- 1st Task observation<br>- 2nd Task observation | Train Driver Re- licence               | At Different Depo within TFR corridors | Ntombifuthi Mlaudzi<br>Magezi Maluleke<br>Jerrin Mohan |
| Train Driver Basic Train Handling Technics and dynamics | Train Driver in Training                                                                                                                | 5 days                                                                                                                                           | <ul style="list-style-type: none"> <li>- Gradients</li> <li>- Force</li> <li>- Speed</li> <li>- Power</li> </ul>                                                                                                                                     | Simulator                                                                                         | Simulator Certification                | All Faculty of Rail Campuses           | Ntombifuthi Mlaudzi<br>Magezi Maluleke<br>Jerrin Mohan |
| Train Driver Advanced Train Handling Training           | Qualified Train Drivers                                                                                                                 | +/- 4 days                                                                                                                                       | <ul style="list-style-type: none"> <li>- Train handling scenarios</li> <li>- Specialized train scenarios</li> <li>- SPAD awareness training</li> </ul>                                                                                               | Simulator                                                                                         | Simulator Certification                | All Faculty of Rail Campuses           | Ntombifuthi Mlaudzi<br>Magezi Maluleke<br>Jerrin Mohan |

| COURSE NAME                                            | ENTRY REQUIREMENTS        | DURATION                 | COURSE DESCRIPTION                                                                                                                                                                                                     | ASSESSMENT METHOD                                                                                                                     | QUALIFICATION /NQF                     | CAMPUS LOCATION/ONLINE                   | CONTACT PERSON                                         |
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| Train Assistant - Initial Course                       |                           | +/- 65 days              | <ul style="list-style-type: none"> <li>- Induction</li> <li>- Locomotives modules</li> <li>- Brake systems modules</li> <li>- Train Working Rules modules</li> <li>- OHTE modules</li> <li>- Hazmat modules</li> </ul> | Theory:<br>Online Assessment<br>Practical:<br>Final Integrated Summative Assessment (FISA)                                            | Train Assistant Certification /Licence | All Faculty of Rail Campuses             | Ntombifuthi Mlaudzi<br>Magezi Maluleke<br>Jerrin Mohan |
| Train Assistant - CPL Continuous Professional Learning | Qualification and licence | 4 Events every 24 months | <ul style="list-style-type: none"> <li>- Theory assessment</li> <li>- Practical assessment</li> <li>- 1st Task observation</li> <li>- 2nd Task observation</li> </ul>                                                  | <ul style="list-style-type: none"> <li>- Theory assessment</li> <li>- Practical assessment</li> <li>- 1st Task observation</li> </ul> | Train Assistant Re-licence             | At different Depots within TFR Corridors | Ntombifuthi Mlaudzi<br>Magezi Maluleke<br>Jerrin Mohan |
| Chief Shedman - Full Course                            |                           | 30 days                  | <ul style="list-style-type: none"> <li>- Sprint</li> <li>- Computer system</li> <li>- Rosters and roster principles</li> <li>- Shed personnel duties</li> </ul>                                                        | Theory:<br>Online Assessment<br>Practical:<br>Final Integrated Summative Assessment (FISA)                                            | Chief Shedman Qualification            | All Faculty of Rail Campuses             | Ntombifuthi Mlaudzi<br>Magezi Maluleke<br>Jerrin Mohan |
| Shedman - Full Course                                  |                           | 20 days                  | <ul style="list-style-type: none"> <li>- Shedman duties</li> <li>- Locomotives</li> </ul>                                                                                                                              | Theory:<br>Online Assessment<br>Practical:<br>Final Integrated Summative Assessment (FISA)                                            | Shedman Qualification                  | All Faculty of Rail Campuses             | Ntombifuthi Mlaudzi<br>Magezi Maluleke<br>Jerrin Mohan |

| COURSE NAME                                       | ENTRY REQUIREMENTS | DURATION                                                                                                                                       | COURSE DESCRIPTION                                     | ASSESSMENT METHOD                                                                          | QUALIFICATION /NQF            | CAMPUS LOCATION/ONLINE                   | CONTACT PERSON                                         |
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| Shedman Assistant<br>- Full Course                |                    | 20 days                                                                                                                                        | - Shed Assistant duties<br>- Locomotives               | Theory:<br>Online Assessment<br>Practical:<br>Final Integrated Summative Assessment (FISA) | Shed Assistant Qualification  | All Faculty of Rail Campuses             | Ntombifuthi Mlaudzi<br>Magezi Maluleke<br>Jerrin Mohan |
| Functional Yard Operations (FYO)<br>(Yard Master) |                    | Number of modules:<br>+/- 20 Modules<br>Duration per module:<br>As per the Matrix<br>Total course duration:<br>+/- 33 days As per Depot Matrix | National Qualification at NQF level 3                  | Theory:<br>Online Assessment<br>Practical:<br>Final Integrated Summative Assessment (FISA) | FYO Qualification/<br>Licence | At different Depots within TFR Corridors | Ntombifuthi Mlaudzi<br>Magezi Maluleke<br>Jerrin Mohan |
| Yard Foreman                                      |                    | Number of modules:<br>+/- 15 Modules<br>Duration per module:<br>As per the Matrix<br>Total course duration:<br>+/-27 days As per FYO Matrix    | - Yard Foreman duties<br>- Skills programme at Level 3 | Theory:<br>Online Assessment<br>Practical:<br>Final Integrated Summative Assessment (FISA) | Yard Foreman Licence          | All Faculty of Rail Campuses             | Ntombifuthi Mlaudzi<br>Magezi Maluleke<br>Jerrin Mohan |
| Yard Officials                                    |                    | Number of modules:<br>+/- 15 Modules<br>Duration per module:<br>As per the Matrix<br>Total course duration:<br>+/-27 days As per FYO Matrix    | - Yard Foreman duties<br>- Skills programme at Level 3 | Theory:<br>Online Assessment<br>Practical:<br>Final Integrated Summative Assessment (FISA) | Yard Official Licence         | All Faculty of Rail Campuses             | Ntombifuthi Mlaudzi<br>Magezi Maluleke<br>Jerrin Mohan |

| COURSE NAME                                          | ENTRY REQUIREMENTS        | DURATION                        | COURSE DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                          | ASSESSMENT METHOD                                                                          | QUALIFICATION /NQF                   | CAMPUS LOCATION/ONLINE                   | CONTACT PERSON                                                 |
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| Yard Planners                                        |                           |                                 | <ul style="list-style-type: none"> <li>- Yard Planner duties</li> <li>- Skills programme at Level 3</li> </ul>                                                                                                                                                                                                                                                                                                                                              | Theory:<br>Online Assessment<br>Practical:<br>Final Integrated Summative Assessment (FISA) | Yard Planner                         | All Faculty of Rail Campuses             | Ntombifuthi Mlaudzi<br><br>Magezi Maluleke<br><br>Jerrin Mohan |
| Data Clerks                                          |                           | 17 days                         | <ul style="list-style-type: none"> <li>- Data Clerks duties</li> <li>- Skills programme at Level 3</li> </ul>                                                                                                                                                                                                                                                                                                                                               | Theory:<br>Online Assessment<br>Practical:<br>Final Integrated Summative Assessment (FISA) | Data Clerk                           | All Faculty of Rail Campuses             | Ntombifuthi Mlaudzi<br><br>Magezi Maluleke<br><br>Jerrin Mohan |
| Yard Official Continuous Professional Learning (CPL) | Qualification and licence | 4 Events every 24 months        | <ul style="list-style-type: none"> <li>- Theory assessment</li> <li>- Practical assessment</li> <li>- 1st Task observation</li> <li>- 2nd Task observation</li> </ul>                                                                                                                                                                                                                                                                                       | Theory assessment<br><br>Practical assessment<br><br>1st Task observation                  | Yard Official Re -Licence            | At different Depots within TFR Corridors | Renesh Harripas-ad                                             |
| Yard Officials                                       | Train Drivers in training | +/- 65 days As per Depot Matrix | Objective:<br>To control Train and shunting Movements<br>Modules:<br><ul style="list-style-type: none"> <li>- Technology modules</li> <li>- Equipment modules</li> <li>- Foundational modules</li> </ul> Theory:<br><ul style="list-style-type: none"> <li>- Train Working Rules</li> <li>- Train Control System</li> </ul> Practical:<br><ul style="list-style-type: none"> <li>- Standard Operating Procedure</li> <li>- Area Process Training</li> </ul> | Theory:<br>Online Assessment<br>Practical:<br>Final Integrated Summative Assessment (FISA) | Train Driver Qualification & Licence | All Faculty of Rail Campuses             | Ntombifuthi Mlaudzi<br><br>Magezi Maluleke<br><br>Jerrin Mohan |

| COURSE NAME                                                    | ENTRY REQUIREMENTS               | DURATION                 | COURSE DESCRIPTION                                                                                                                                                                                                                                                                                                                                                       | ASSESSMENT METHOD                                                                                                                     | QUALIFICATION /NQF               | CAMPUS LOCATION/ONLINE                   | CONTACT PERSON                                         |
|----------------------------------------------------------------|----------------------------------|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------------------------------------------|--------------------------------------------------------|
| Train Control Officer - Continuous Professional Learning (CPL) | Qualified Train Control Officers | 5 Events every 24 months | <ul style="list-style-type: none"> <li>- Theory assessment</li> <li>- Road knowledge assessment</li> <li>- Simulation assessment</li> <li>- 1st Task observation</li> <li>- 2nd Task observation</li> </ul>                                                                                                                                                              | <ul style="list-style-type: none"> <li>- Theory assessment</li> <li>- Practical assessment</li> <li>- 1st Task observation</li> </ul> | Train Driver Re -Licence         | At different Depots within TFR Corridors | Renesh Harripasad                                      |
| <b>Terminal Training</b>                                       |                                  | 20 days                  |                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                       |                                  |                                          |                                                        |
| Cargo Cooordinator Duties                                      | Matric (Grade 12)                |                          | <ul style="list-style-type: none"> <li>- Induction customer</li> <li>- Care for equipment</li> <li>- Hazardous goods</li> <li>- Container working</li> <li>- Container movement</li> <li>- Management</li> <li>- NAVIS</li> <li>- Radio Data terminal</li> <li>- Theoretical and Practical course</li> <li>- Pre-work crane inspection</li> <li>- Maneuvering</li> </ul> | <p>Theory at Faculty of Rail Campus</p> <p>Practical at the Terminals</p>                                                             | Cargo Co-coordinator Certificate |                                          |                                                        |
| Crane Operator                                                 |                                  |                          |                                                                                                                                                                                                                                                                                                                                                                          | <p>Theory at Faculty of Rail Campus</p> <p>Practical at the Terminals</p>                                                             |                                  |                                          |                                                        |
|                                                                | Grade 10                         |                          | <ul style="list-style-type: none"> <li>- Theoretical and Practical course</li> <li>- Pre-work crane inspection</li> <li>- Maneuvering</li> </ul>                                                                                                                                                                                                                         | <p>Theory at Faculty of Rail Campus</p> <p>Practical at the Terminals</p>                                                             | Operator Certificate             | All Faculty of Rail Campuses             | Ntombifuthi Mlaudzi<br>Magezi Maluleke<br>Jerrin Mohan |
| Mobile/ Rail-to-Road Transfer Cranes                           |                                  |                          |                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                       |                                  |                                          |                                                        |

| COURSE NAME                                                                 | ENTRY REQUIREMENTS | DURATION                                                                                                                                         | COURSE DESCRIPTION                                                                                                                                                                                  | ASSESSMENT METHOD  | QUALIFICATION /NQF          | CAMPUS LOCATION/ONLINE       | CONTACT PERSON |
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| Operational Command Center OCC                                              |                    | Number of modules:<br>+/- 20 Modules<br>Duration per module:<br>As per the Matrix<br>Total course duration:<br>+/- 33 days As per the FYO Matrix | The OCC training is for one to understand the processes of Train Scheduling, Train Planning and Train Execution                                                                                     | Theory & Practical | FYO Qualification & Licence | All Faculty of Rail Campuses | Cathy Willemse |
| 5'S For Operational Management & Supervisors (Operations & Infrastructure)  |                    |                                                                                                                                                  | - Theory and practical methods for the implementation of procedures and tools to enhance supervision and operational discipline compliance to SANS 3000-4 of the RSR act 16 Valid for 1 year        |                    | FYO Qualification & Licence |                              |                |
| Task Observations For Operational Supervisors (Operations & Infrastructure) |                    |                                                                                                                                                  | - Theory and practical methods to manage employee competencies and compliance to company standards to ensure safe working practices in compliance to SANS 3000-4 of the RSR act 16 Valid for 1 year |                    | FYO Qualification & Licence |                              |                |
| Rail Incident Commander                                                     |                    |                                                                                                                                                  | - Investigate rail Incidents                                                                                                                                                                        |                    |                             |                              |                |
| Rail Incident Officer                                                       |                    |                                                                                                                                                  | - Investigate rail Incidents                                                                                                                                                                        |                    |                             |                              |                |
| Train Accident Prevention (TAP)                                             |                    |                                                                                                                                                  | What to put in place on how to prevent accidents                                                                                                                                                    |                    |                             |                              |                |

| COURSE NAME                                               | ENTRY REQUIREMENTS                                                                                                                                                                                                                                                                     | DURATION                                                                                                                                          | COURSE DESCRIPTION                                                                                                                                                                                                                                                                             | ASSESSMENT METHOD                | QUALIFICATION /NQF | CAMPUS LOCATION/ONLINE       | CONTACT PERSON |
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| O2E Training                                              |                                                                                                                                                                                                                                                                                        |                                                                                                                                                   | The O2E programme is the company's end-to-end processes that involves the design of a service onto the Master Train Schedule that allow a Slot to be provided on the Integrated Train Plan (ITP) and then the demand planning to this Slot for execution from a macro and micro point of view. |                                  | Certificate        | All Faculty of Rail Campuses | Cathy Willemse |
| ROMP<br>Railway<br>Operational<br>Management<br>Programme | Candidates must be able to satisfy the general admissions requirements of the Institute of Railway Operators, Transnet Academy, Glasgow Caledonian University and University of Johannesburg. No one will be allowed to study ROMP if he/she is currently busy with any other studies. | Number of modules:<br>+/- 15<br>Modules<br>Duration per module:<br>As per the Matrix<br>Total course duration:<br>+/-27 days<br>As per the Matrix | ROMP is for employees in operations or employees wanting to further their career in operations.                                                                                                                                                                                                | Face to face and Online learning | Qualification      | Esselenpark                  | Cathy Willemse |
| Service Management                                        |                                                                                                                                                                                                                                                                                        |                                                                                                                                                   | There are five levels to choose from – Certificate, Diploma and Degree (BSc), Honours Degree (BSc (Hons) and Master's Degree (MSc)                                                                                                                                                             |                                  |                    |                              |                |
| Area working                                              |                                                                                                                                                                                                                                                                                        |                                                                                                                                                   | Systems Training                                                                                                                                                                                                                                                                               |                                  | Qualification      | All Faculty of Rail Campuses | Cathy Willemse |
| Consaptainer                                              |                                                                                                                                                                                                                                                                                        |                                                                                                                                                   |                                                                                                                                                                                                                                                                                                |                                  | Certificate        |                              |                |
| Sprint                                                    |                                                                                                                                                                                                                                                                                        |                                                                                                                                                   |                                                                                                                                                                                                                                                                                                |                                  |                    |                              |                |
| Rubber Wheels                                             |                                                                                                                                                                                                                                                                                        |                                                                                                                                                   | The roll of the Rubber Wheels Training in Faculty of Rail is to develop the driving skills of road vehicle drivers in the company to their full potential,                                                                                                                                     | Face to face<br>Practical        |                    |                              |                |

| COURSE NAME                                    | ENTRY REQUIREMENTS                                   | DURATION                                                                    | COURSE DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ASSESSMENT METHOD         | QUALIFICATION /NQF | CAMPUS LOCATION/ONLINE       | CONTACT PERSON |
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|                                                |                                                      | As per the Matrix<br>Total course duration:<br>+/-27 days As per the Matrix | to promote road safety in the Business and accommodate all driver training needs received from Business Units inTransnet Freight Rail.                                                                                                                                                                                                                                                                                                                                                                                                                             |                           |                    |                              | Cathy Willemse |
| Rail Occurrence Investigation Programme (ROIP) | Grade 12                                             | Various                                                                     | The Faculty of Rail also administer the ROIP in partnership with the UP which is intended to provide TA Railway Incident Investigators with a broad and detailed understanding of all the major aspects of railway (infra, ops, rolling stock), their interrelationships and interdependencies within the railway environment in order to enable them to conduct all investigation incidents within Transnet Academy in an independent, impartial and highly qualitative process.                                                                                  | Face to face<br>Practical | Qualification      | All Faculty of Rail Campuses | Cathy Willemse |
| EDP                                            | National Diploma/<br>Bachelors Degree in Engineering | Various                                                                     | The Transnet Academy Engineering Development Programme (EDP) has been developed to create and enhance the capability of engineering employees in the Rail Network Department (inclusive of R&C), Technology Management Department and Capital Programme Department and to further ensure proper development of engineering skills within Transnet. The Transnet Academy EDP will also assist the business in meeting the long term human capital and leadership needs of the Group through attracting, recruiting, developing and retaining engineering graduates. | Face to face<br>Practical | Certificate        | All Faculty of Rail Campuses | Cathy Willemse |

| COURSE NAME                  | ENTRY REQUIREMENTS                    | DURATION                                                                        | COURSE DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ASSESSMENT METHOD | QUALIFICATION /NQF           | CAMPUS LOCATION/ONLINE | CONTACT PERSON |
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| PERMANENT WAY                |                                       |                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                   |                              |                        |                |
| Trainee Track Master Phase 1 | Grade 12 with Mathematics and English | 80 days Theory +<br>70 days On-the-job training<br><br>Total Duration: 150 days | <ul style="list-style-type: none"> <li>- Course Orientation</li> <li>- Quality</li> <li>- Risk Management</li> <li>- Hygiene and Sanitation</li> <li>- Safety Instructions</li> <li>- Emergency Care (Level 1)</li> <li>- Fire Fighting(Elementary)</li> <li>- Permanent Way • Terms</li> <li>- Permanent Way • Tools and Equipment</li> <li>- Mechanical Equipment</li> <li>- Permanent Way • Administration</li> <li>- Responsibilities/Duties-</li> <li>- Permanent • Way Personnel</li> <li>- Patrol Work / Inspections</li> <li>- Associated Works</li> <li>- Rail Transporters</li> <li>- Blasting Work</li> <li>- Lubricators</li> <li>- Environmental Inclination</li> </ul> | Online Assesment  | Trainee Track Master Phase 1 | Esselenpark            | Annah Simango  |
| Train Working Rules          | Track Master Phase 1 completed        | 50 days Theory                                                                  | <ul style="list-style-type: none"> <li>- 9 modules applicable to Perway personnel</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Online Assesment  | Train Working Rules          | Esselenpark            | Annah Simango  |
| Trainee Track Master Phase 2 | TWR completed                         | 70 days Theory +<br>80 days On-the-job training<br><br>Total Duration: 150 days | <ul style="list-style-type: none"> <li>- Permanent Way – Calculations</li> <li>- Permanent Way – Material</li> <li>- Earth Works</li> <li>- Bridges, Culverts, Tunnels</li> <li>- Permanent Way Maintenance</li> <li>- Private Sidings</li> <li>- Inspection / Evaluation of the Track</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                    | Online Assesment  | Trainee Track Master Phase 3 | Esselenpark            | Annah Simango  |

| COURSE NAME                                             | ENTRY REQUIREMENTS                                                            | DURATION                                                | COURSE DESCRIPTION                                                                                                                                                                                                                                                         | ASSESSMENT METHOD    | QUALIFICATION /NQF                                                | CAMPUS LOCATION/ONLINE | CONTACT PERSON |
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| Advanced Track Master Course                            | Track Master Phase 3 completed                                                | 50 days Theory + On-the-job training at Depot           | <ul style="list-style-type: none"> <li>- Permanent Way - Calculations</li> <li>- Protection</li> <li>- Basic Management</li> <li>- Ultrasonic Testing</li> <li>- IMS 2000</li> <li>- Permanent Way activities</li> <li>- Graphs</li> </ul>                                 | Online Assesment     | Track Master Advanced                                             | Esselenpark            | Annah Simango  |
| Track Lubrication                                       | Must have worked as an Infra Worker                                           | 10 days                                                 | <ul style="list-style-type: none"> <li>- PM lubricator pot</li> <li>- S &amp; M lubricator pot</li> <li>- Course offered at SoR and Depots</li> </ul>                                                                                                                      | Online Assesment     | Track Lubrication                                                 | Esselenpark            | Annah Simango  |
| Track Worker Enrichment Course                          | Must have worked as an Infra Worker                                           | 25 days                                                 | <ul style="list-style-type: none"> <li>- Permanent Way hand tools</li> <li>- Permanent Way mechanical equipment</li> <li>- Permanent Way materials</li> <li>- Course offered at SoR and Depots</li> <li>- Hygiene and Sanitation</li> <li>- Grievance Procedure</li> </ul> | Online Assesment     | Track Worker                                                      | Esselenpark            | Annah Simango  |
| Refresher Course for Track Masters and Track Inspectors |                                                                               | Duration depends on the number of modules to be covered | <ul style="list-style-type: none"> <li>- As per request from Permanent Way Maintenance Manual 2000</li> </ul>                                                                                                                                                              | Online Assesment     | Trainee Track Master Phase 3                                      | Esselenpark            | Annah Simango  |
| Protection Duties for Infra Personnel (Flagman)         | Must have worked as an Infra Worker and Grade 12 with Mathematics and English | 5 days                                                  | <ul style="list-style-type: none"> <li>- Afford on track protection Level 2 (Valid for 2 Year)</li> </ul>                                                                                                                                                                  | Practical Assessment | Afford on Track Protection Certificate Level 2 (Valid for 2 Year) | Esselenpark            | Annah Simango  |

| COURSE NAME                  | ENTRY REQUIREMENTS                                                                                        | DURATION                                                                       | COURSE DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ASSESSMENT METHOD | QUALIFICATION /NQF           | CAMPUS LOCATION/ONLINE | CONTACT PERSON |
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| Trainee Track Welder Phase 1 | Grade 12                                                                                                  | 110 days Theory + 40 days on-the-job training<br><br>Total Duration = 150 days | <ul style="list-style-type: none"> <li>- Course orientation</li> <li>- Risk management</li> <li>- Definitions, preparation &amp; symbols</li> <li>- Hand tools</li> <li>- General tools</li> <li>- Measuring tools</li> <li>- Emergency care (level1)</li> <li>- Firefighting (elementary)</li> <li>- Bench grinder machine</li> <li>- Disc cutting machine</li> <li>- Welding machine</li> <li>- Wire feeder</li> <li>- MP12 grinder</li> <li>- Angle grinder</li> <li>- Welding personnel protection duties</li> <li>- Battered ends</li> <li>- Wheel spin bum</li> <li>- Shielded metal arc welding</li> <li>- Pre and post heating</li> <li>- Electrodes</li> <li>- Metallurgy 1</li> </ul> | Online Assesment  | Trainee Track Welder Phase 1 | Esselenpark            | Annah Simango  |
| Trainee Track Welder Phase 2 | Phase 1 completed                                                                                         | 70 days Theory + 70 days On-the-job training<br>Total Duration = 140 days      | <ul style="list-style-type: none"> <li>- Brazing Welding</li> <li>- Repair of rail manufactured Frog</li> <li>- Hardness testing</li> <li>- Hydraulic stripping machine</li> <li>- Exothermic welding process</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Online Assesment  | Trainee Track Welder Phase 2 | Esselenpark            | Annah Simango  |
| Advanced Track Welder        | Track Welder Phase 1 & Phase 2 Training completed<br>Trade Test completed and appointed in Artisan Welder | 50 days                                                                        | <ul style="list-style-type: none"> <li>- Repair 14% Mono-Block Frog</li> <li>- Repair Rail Manufactured Frog</li> <li>- Metallurgy 2</li> <li>- Combination of Phase 1 &amp; 2 modules</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Online Assesment  | Advanced Track Welder        | Esselenpark            | Annah Simango  |

| COURSE NAME                                         | ENTRY REQUIREMENTS                                                                                                                                                              | DURATION                                                                          | COURSE DESCRIPTION                                                                                                                                                                                | ASSESSMENT METHOD | QUALIFICATION /NQF        | CAMPUS LOCATION/ONLINE | CONTACT PERSON |
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| Track Welding Course for Qualified Welding Artisans | Phase 2 Training completed Trade Test completed and appointed in Artisan Welder                                                                                                 | 110 days Theory +<br>70 days On the-job training<br><br>Total Duration = 180 days | <ul style="list-style-type: none"> <li>- Repair 14% Mono-Block Frog</li> <li>- Repair Rail Manufactured Frog</li> <li>- Metallurgy 2</li> <li>- Combination of Phase 1 &amp; 2 modules</li> </ul> | Online Assessment | Advanced Track Welder     | Esselenpark            | Annah Simango  |
| Refresher Course for Mathonsi Trade Hand (Level 4)  |                                                                                                                                                                                 | Duration depend on the number of modules to be covered                            | <ul style="list-style-type: none"> <li>- As per request from Permanent Way Welding Manual (SSS)</li> </ul>                                                                                        | Online Assessment | Refresher                 | Esselenpark            | Annah Simango  |
| Basic Shielded Metal-Arc Welding                    |                                                                                                                                                                                 | Minimum of 3 days to 5 days                                                       | <ul style="list-style-type: none"> <li>- Basic Shielded Arc Welding</li> </ul>                                                                                                                    | Online Assessment | Track Welder              | Esselenpark            | Annah Simango  |
| Disc Cutting                                        |                                                                                                                                                                                 | 3 days                                                                            | <ul style="list-style-type: none"> <li>- Disc Cutting</li> </ul>                                                                                                                                  | Online Assessment | Disc Cutter               | Esselenpark            | Annah Simango  |
| Gas Cutting                                         |                                                                                                                                                                                 | 5 days                                                                            | <ul style="list-style-type: none"> <li>- Disc Cutting</li> </ul>                                                                                                                                  | Online Assessment | Gas Cutter                |                        |                |
| Road/Rail Vehicle (Track)                           | Must be a qualified Track Master/Welder, C1 Drivers licence + Valid PrDP, C32 Jib Crane Certificate, Medical Fitness Certificate, TWR Certificate + Road Knowledge Certificate) | 10 days                                                                           | <ul style="list-style-type: none"> <li>- Road/Rail Vehicle (Track) with Hydraulic Tool &amp; Equipment for Track maintenance</li> </ul>                                                           | Online Assessment | Road/Rail Vehicle (Track) | Esselenpark            | Annah Simango  |

| COURSE NAME                       | ENTRY REQUIREMENTS                                                                                                                                                              | DURATION                                                                                                 | COURSE DESCRIPTION                                                                                                                                                                                                                                                                   | ASSESSMENT METHOD | QUALIFICATION /NQF                                                       | CAMPUS LOCATION/ONLINE | CONTACT PERSON |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|--------------------------------------------------------------------------|------------------------|----------------|
| Road/Rail Vehicle (Track Welding) | Must be a qualified Track Master/Welder, C1 Drivers licence + Valid PrDP, C32 Jib Crane Certificate, Medical Fitness Certificate, TWR Certificate + Road Knowledge Certificate) |                                                                                                          | - Road/Rail Vehicle (Track Welding) with Hydraulic Tool & Equipment for Track maintenance                                                                                                                                                                                            | Online Assessment | Road/Rail Vehicle (Track Welding)                                        | Esselenpark            | Annah Simango  |
| Road Vehicle (Track)              |                                                                                                                                                                                 | 5 days                                                                                                   | - Road Vehicle (Track) with Power Units, Hydraulic Tool & Equipment, used by traditional teams for Track maintenance                                                                                                                                                                 | Online Assessment | Road/Rail Vehicle (Track)                                                | Esselenpark            | Annah Simango  |
| RAILWAY SIGNALLING                |                                                                                                                                                                                 |                                                                                                          |                                                                                                                                                                                                                                                                                      |                   |                                                                          |                        |                |
| SPOORPLAN Mk 1                    | Completion of a course in Basic Signalling                                                                                                                                      | 35 days<br>Session 1<br>15 days<br><br>15 days<br>(2 weeks between sessions)<br><br>Session 2<br>20 days | - Spoorplan Mk 1 Interlocking (Workshop)<br>- Theoretical training on Spoorplan Mk 1 Interlocking system<br>- System design is dealt with<br>- Practical training on Spoorplan Mk 1 Interlocking system<br>- Pinpoint a system fault<br>- Repair a faulty system on site within time | Online Assessment | Spoorplan Mk 1 System Engineering Technician<br><br>Statement of Results | Esselenpark            | Tebogo Lekgari |

| COURSE NAME              | ENTRY REQUIREMENTS                               | DURATION                                                                                       | COURSE DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ASSESSMENT METHOD | QUALIFICATION /NQF                  | CAMPUS LOCATION/ONLINE | CONTACT PERSON |
|--------------------------|--------------------------------------------------|------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------------------------|------------------------|----------------|
| SPOORPLAN Mk 1 Refresher | Completion of Spoorplan Workshop or field course | 15 days<br>Session 1<br>5 days<br>5 days<br>(2 weeks between sessions)<br>Session 2<br>10 days | <ul style="list-style-type: none"> <li>- Spoorplan Mk 1 Interlocking (Refresher)</li> <li>- Engineering Technicians responsible for first-line maintenance</li> <li>- Practical training on Spoorplan Mk 1 Interlocking system</li> <li>- Practical fault-finding procedures</li> <li>- Repair a faulty system on site within time</li> <li>- Spoorplan Mk 1C Interlocking (Workshop)</li> <li>- Theoretical training on Spoorplan Mk 1C Interlocking system</li> <li>- System design is dealt with</li> </ul> | Online Assessment | Refresher<br>- Statement of Results | Esselenpark            | Tebogo Lekgari |

| COURSE NAME                            | ENTRY REQUIREMENTS                                                     | DURATION                                                                                          | COURSE DESCRIPTION                                                                                                                                                                                                                                                                                                                                | ASSESSMENT METHOD | QUALIFICATION /NQF                                                          | CAMPUS LOCATION/ONLINE | CONTACT PERSON |
|----------------------------------------|------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------------------------------------------------------------------------|------------------------|----------------|
|                                        |                                                                        |                                                                                                   | <ul style="list-style-type: none"> <li>- Practical training on Spoorplan Mk 1C Interlocking system</li> <li>- 1st 2nd and third-line maintenance on Spoorplan Mk 1C</li> <li>- Fault-finding and reinstate the system within time</li> </ul>                                                                                                      |                   |                                                                             |                        | Tebogo Lekgari |
| SPOORPLAN Mk 1C (SPL Mk1C)             | Completion of a Spoorplan Mk1 no longer than 1 year before this course | 25 days<br><br>Session 1<br>15 days<br><br>(2 weeks between sessions)<br><br>Session 2<br>10 days |                                                                                                                                                                                                                                                                                                                                                   | Online Assessment | Spoorplan Mk 1C System Engineering Technician<br><br>- Letter of Competency | Esselenpark            | Tebogo Lekgari |
| SPOORPLAN Mk 1C Refresher (SPL Mk1C-R) | Completion of a Spoorplan Mk1C course                                  | 15 days<br><br>Session 1<br>5 days<br><br>(2 weeks between sessions)<br><br>Session 2<br>10 days  | <ul style="list-style-type: none"> <li>- Spoorplan Mk 1C Interlocking - (Refresher)</li> <li>- Engineering Technicians responsible for first-line maintenance</li> <li>- Practical training on Spoorplan Mk 1C Interlocking system</li> <li>- Practical fault-finding procedures</li> <li>- Repair a faulty system on site within time</li> </ul> | Online Assessment | Letter of Competency                                                        | Esselenpark            | Tebogo Lekgari |
| SPOORPLAN Mk 2 (SPL Mk2)               | Completion of a Spoorplan Mk1C course                                  | 35 days<br><br>Session 1<br>15 days<br><br>Session 1<br>10 days                                   | <ul style="list-style-type: none"> <li>- Spoorplan Mk 2 Interlocking (Workshop)</li> <li>- Theoretical training on Spoorplan Mk 2 Interlocking system</li> <li>- System design is dealt with Practical training on Spoorplan Mk 2 Interlocking system</li> </ul>                                                                                  | Online Assessment | Spoorplan Mk 2 System Engineering Technician<br>- Letter of Competency      | Esselenpark            | Tebogo Lekgari |

| COURSE NAME              | ENTRY REQUIREMENTS                                                                                        | DURATION             | COURSE DESCRIPTION                                                                                     | ASSESSMENT METHOD | QUALIFICATION /NQF                                                                                                                   | CAMPUS LOCATION/ONLINE | CONTACT PERSON |
|--------------------------|-----------------------------------------------------------------------------------------------------------|----------------------|--------------------------------------------------------------------------------------------------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------|------------------------|----------------|
|                          |                                                                                                           | Session 2<br>10 days | - 1st 2nd and third-line maintenance on Spoorplan Mk 2<br>- Repair a faulty system on site within time |                   |                                                                                                                                      |                        | Tebogo Lekgari |
| Signals Bursary Program  | Completed all modules for a N.Dip in Electrical Engineering (light Current) from University of Technology | 241 days             | Initial Training for Signals P1/P2 Programme                                                           | Online Assessment | Completed Work Integrated Learning Report – National Diploma in Electrical Engineering (light Current) from University of Technology | Esselenpark            | Tebogo Lekgari |
| Trainee Technical Worker | Completed National Diploma in Electrical Engineering (light Current) from University of Technology        | 339 days             | Initial Training for Trainee Technical Worker                                                          | Online Assessment | Letter of Competency                                                                                                                 |                        |                |
| Technician in Training   | Initial Training for Technician in Training                                                               | 241 days             |                                                                                                        | Online Assessment | Letter of Competency                                                                                                                 | Esselenpark            | Tebogo Lekgari |
| Signalling Short Courses | Initial Training                                                                                          | 30 days              | - SPOORPLAN Mk 1C (SPL Mk1C)                                                                           | Online Assessment | Letter of Competency                                                                                                                 | Esselenpark            | Tebogo Lekgari |
|                          | Compliance Training                                                                                       | 45 days              | - SPOORPLAN Mk 2 (SPL Mk2)                                                                             | Online Assessment | Letter of Competency                                                                                                                 |                        |                |
|                          | Compliance Training                                                                                       | 45 days              | - Spoorplan Mk "M" (Workshop) (SPL Mk MW)                                                              | Online Assessment | Letter of Competency                                                                                                                 |                        |                |

| COURSE NAME              | ENTRY REQUIREMENTS                   | DURATION | COURSE DESCRIPTION                                                                                                                                                                                                             | ASSESSMENT METHOD | QUALIFICATION /NQF   | CAMPUS LOCATION/ONLINE | CONTACT PERSON |
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| Signalling Short Courses | Compliance Training                  | 15 days  | - HR 92 (Field) (HR 92-F)                                                                                                                                                                                                      |                   |                      |                        | Tebogo Lekgari |
|                          | Compliance Training                  | 15 days  | - Microlock Electronic Interlocking (Ansaldo)                                                                                                                                                                                  | Online Assessment | Letter of Competency | Esselenpark            | Tebogo Lekgari |
|                          |                                      |          | - Simis S7 Electronic Interlocking                                                                                                                                                                                             |                   |                      |                        |                |
|                          |                                      |          | - Siemens SICAS Electronic Interlocking                                                                                                                                                                                        |                   |                      |                        |                |
|                          |                                      |          | - EBI Lock 950 Electronic Interlocking (Bombadier)                                                                                                                                                                             |                   |                      |                        |                |
|                          | Compliance Training Initial Training | 10 days  | - Yard Automation (Actom / GE/ Nortrek)<br>- Power Supply Systems - Uninterrupted Power Supply Meissner Field (UPS P-F)<br>- Train Working Rules Applicable to Signalling Maintenance Personnel<br>- Train Working Rules (TWR) | Online Assessment | Letter of Competency | Esselenpark            | Tebogo Lekgari |
|                          |                                      | 10 days  |                                                                                                                                                                                                                                |                   |                      |                        |                |
|                          |                                      | 22 days  |                                                                                                                                                                                                                                |                   |                      |                        |                |
|                          | Initial Training                     | 15 days  | - VP interlocking (Actom)                                                                                                                                                                                                      | Online Assessment | Letter of Competency | Esselenpark            | Tebogo Lekgari |
|                          |                                      | 5 days   | - Self Normalizing Points Indicator                                                                                                                                                                                            |                   |                      |                        |                |
|                          |                                      | 5 days   | - Radio Controlled Electrical Self Normal Points with Electrical Indicators                                                                                                                                                    |                   |                      |                        |                |

| COURSE NAME              | ENTRY REQUIREMENTS | DURATION | COURSE DESCRIPTION                                                                                                                                    | ASSESSMENT METHOD | QUALIFICATION /NQF | CAMPUS LOCATION/ONLINE | CONTACT PERSON |
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| Signalling Short Courses | Initial Training   | 5 days   | - Relay Changing Practices                                                                                                                            | Paper based       | Online Assessment  | Esselenpark            | Tebogo Lekgari |
|                          |                    | 10 days  | - Remote Control Systems<br>- CS 90 Remote Control (Field) (RC CS90-F)                                                                                |                   |                    |                        |                |
|                          |                    |          | - Remote Control Systems<br>- CS 90 Remote Control (CTC CONFIG)                                                                                       |                   |                    |                        |                |
|                          |                    |          | - VP interlocking (Train Detection Systems - AC Track Circuit (Field) - (TC AC-F)                                                                     |                   |                    |                        |                |
|                          |                    |          | - Train Detection Systems<br>- Jeumont Track Circuit (Field) (TC-J-F)                                                                                 |                   |                    |                        |                |
|                          |                    |          | - Train Detection Systems<br>- ML Jointed Track Circuit (Field) (TC MLJF)<br>- Train Detection Systems<br>- Axle Counter- Siemens AZ350U (AC-AZ.350U) |                   |                    |                        |                |
|                          |                    |          | - Train Detection Systems<br>- Axle Counter- Alcatel (Field) (AC-SK30)                                                                                |                   |                    |                        |                |
|                          |                    |          | - Train Detection Systems<br>- Frauscher Axle counter complete section ACS2000 / FADC                                                                 |                   |                    |                        |                |
|                          |                    |          | - Train Detection Systems<br>- Thales Axle counter AZLM / AZLE                                                                                        |                   |                    |                        |                |
|                          |                    |          | - Train Detection Systems<br>- Siemens AC100 /AC200                                                                                                   |                   |                    |                        |                |
|                          |                    | 8 days   | - Condition Assessment Systems - Hot Bearing Detector (HTK 499 & Phoenix)                                                                             |                   |                    |                        |                |

| COURSE NAME              | ENTRY REQUIREMENTS | DURATION | COURSE DESCRIPTION                                                              | ASSESSMENT METHOD                 | QUALIFICATION /NQF   | CAMPUS LOCATION/ONLINE |                |
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| Signalling Short Courses | Initial Training   | 5 days   | - Condition Assessment Systems - Continuous Welded Rail Monitoring System       | Paper based and Online Assessment | Letter of Competency | Esselenpark            | Tebogo Lekgari |
|                          |                    |          | - Condition Assessment Systems - Acoustic Bearing Monitoring system             |                                   |                      |                        |                |
|                          |                    |          | - Condition Assessment Systems - Dragging Equipment Detector                    |                                   |                      |                        |                |
|                          |                    |          | - Condition Assessment Systems - In Motion Weigh Bridges                        |                                   |                      |                        |                |
|                          |                    |          | - Condition Assessment Systems - Static Weigh Bridges                           |                                   |                      |                        |                |
|                          |                    |          | - Condition Assessment Systems - Vehicle Identification System                  |                                   |                      |                        |                |
|                          |                    |          | - Condition Assessment Systems - Wheel Profile Monitor                          |                                   |                      |                        |                |
|                          |                    |          | - Condition Assessment Systems - Ultrasonic Broken Rail Detector                |                                   |                      |                        |                |
|                          |                    |          | - Condition Assessment Systems – Skew Boggie Detector                           |                                   |                      |                        |                |
|                          |                    |          | - Safety Working & Maintenance Procedures Safe Working Procedures               |                                   |                      |                        |                |
|                          |                    | 3 days   | - Safety Working & Maintenance Procedures<br>- Maintenance Procedures           |                                   |                      |                        |                |
|                          |                    | 5 days   | - Safety Working & Maintenance Procedures<br>- Maintenance Procedures on Points |                                   |                      |                        |                |

| COURSE NAME              | ENTRY REQUIREMENTS | DURATION | COURSE DESCRIPTION                                                                                                                                                          | ASSESSMENT METHOD | QUALIFICATION /NQF   | CAMPUS LOCATION/ONLINE |                |
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| Signalling Short Courses | Initial Training   | 3 days   | - Safety Working & Maintenance Procedures<br>- Maintenance Procedures on Tracks                                                                                             | Online Assessment | Letter of Competency | Esselenpark            | Tebogo Lekgari |
|                          |                    |          | - Safety Working & Maintenance Procedures<br>- Maintenance Procedures on Signals                                                                                            |                   |                      |                        |                |
|                          |                    |          | - Safety Working & Maintenance Procedures - Maintenance Procedures on Axle Counters                                                                                         |                   |                      |                        |                |
|                          |                    |          | - Safety Working & Maintenance Procedures - Maintenance Procedures on Interlocking<br>- Safety Working & Maintenance Procedures - Maintenance Procedures on Apparatus Cases |                   |                      |                        |                |
|                          |                    |          | - Safety Working & Maintenance Procedures - Maintenance Procedures on Meisseiner UPS Safety Working & Maintenance Procedures<br>- Maintenance Procedures on Batteries       |                   |                      |                        |                |
|                          |                    |          | - Safety Working & Maintenance Procedures - Maintenance Procedures on CAS equipment                                                                                         |                   |                      |                        |                |
|                          |                    |          | - Safety Working & Maintenance Procedures - Maintenance Procedures on Remote Control System                                                                                 |                   |                      |                        |                |
|                          |                    |          | - Safety Working & Maintenance Procedures - Maintenance Procedures on Yard Automation                                                                                       |                   |                      |                        |                |
|                          |                    | 10 days  |                                                                                                                                                                             |                   |                      |                        |                |

| COURSE NAME                 | ENTRY REQUIREMENTS                                                                                                          | DURATION | COURSE DESCRIPTION                                                                                                                                            | ASSESSMENT METHOD | QUALIFICATION /NQF                                                       | CAMPUS LOCATION/ONLINE | CONTACT PERSON |
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| Signalling Short Courses    | Initial Training                                                                                                            | 10 days  | - Power Supply Systems - Uninterrupted Power Supply Meissner Field (UPS P-F)                                                                                  | Online Assessment | Letter of Competency                                                     | Esselenpark            | Tebogo Lekgari |
|                             |                                                                                                                             | 13 days  | - Power Supply Systems - Batteries (Lead Acid) (Field) (LAB-M)                                                                                                |                   |                                                                          |                        |                |
|                             |                                                                                                                             | 15 days  | - Train Working Rules Applicable to Signalling Maintenance Personnel<br>– Train Working Rules (TWR)                                                           |                   |                                                                          |                        |                |
|                             |                                                                                                                             |          | - Introduction to Railway Signalling for Fault- Logging personnel (PLS)                                                                                       |                   |                                                                          |                        |                |
| ELECTRICAL                  |                                                                                                                             |          |                                                                                                                                                               |                   |                                                                          |                        |                |
| Electrical Traction systems | Qualified Electrician with a Trade Certificate. Electrical Power System Certificate and or Category “A” Brown Licence (EPS) | 6 Months | - The content of Electrical Traction Systems Course covers Maintenance and protection of 3kV DC, 25kV AC and 25 kV AC Traction Substations                    |                   | Electrical Traction Systems Certificate Category “A” Brown Licence (ETS) | Esselenpark            | David Simba    |
| Electrical Power Systems    | Qualified Electrician with a Trade Certificate Category “C” Green Licence                                                   | 6 Months | - The content of Electrical Power Systems Course Covers Maintenance of transmission lines and distribution Substations. e.g 3.3kV AC, 6.6 kV AC, 11kV AC etc. |                   | Electrical Power Systems Certificate. Category “A” Brown Licence (EPS)   |                        |                |

| COURSE NAME                           | ENTRY REQUIREMENTS                                                                                           | DURATION | COURSE DESCRIPTION                                                                                                                                                                                                                                                                                                                                                    | ASSESSMENT METHOD | QUALIFICATION /NQF                                   | CAMPUS LOCATION/ONLINE | CONTACT PERSON |
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| Electrical Traction Systems Refresher | Category "A" Brown Licence (ETS)<br>(Refresher is conducted in two yearly intervals to validate the licence) | 4 days   | Module covers safety topics relevant to all employees whose duties require them to work "to Clearance from" "Live" High- Voltage Electrical Equipment, from the Electrical Safety Instructions - High Voltage Manual.                                                                                                                                                 |                   | Renewed Licence:<br>Category "A" Brown Licence (ETS) | Esselenpark            | David Simba    |
| Electrical Power Systems Refresher    | Category "A" Brown Licence (EPS)<br>(Refresher is conducted in two yearly intervals to validate the licence) | 4 days   | Module covers safety topics relevant to all employees whose duties require them to work "to Clearance From" "Live" High-Voltage Electrical Equipment, from the Electrical Safety Instructions -High Voltage Manual.                                                                                                                                                   |                   | Renewed Licence:<br>Category "A" Brown Licence (EPS) |                        |                |
| Letter of Authority                   | Grade 10 or above                                                                                            | 4 days   | <p>Module covers safety topics relevant to all employees whose duties require them to work "to Clearance from" "Live" High-Voltage Electrical Equipment, from the Electrical Safety Instructions -High Voltage Manual.</p> <p>The holder of the Letter of Authority can access restricted Access way for the purpose of conducting tests, inspections, Audit etc.</p> |                   | A Letter of Authority is issued                      |                        |                |

| COURSE NAME                                                                                                                          | ENTRY REQUIREMENTS                                                                                                                  | DURATION                   | COURSE DESCRIPTION                                                                                                                                                                                                                                                               | ASSESSMENT METHOD | QUALIFICATION /NQF                                                                                  | CAMPUS LOCATION/ONLINE | CONTACT PERSON |
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| Category C Green Licence:<br>1. Substation Battery Maintenance<br>2. Yard Lights Maintenance<br>3. C-Green- Revision<br>4. Switching | Grade 10 (Refresher is conducted in two (2) yearly intervals to validate the Licence on an ongoing process)                         | 4 days                     | Module covers safety topics relevant to all employees whose duties require them to work "to Clearance From" "Live" High-Voltage Electrical Equipment, from the Electrical Safety Instructions -High Voltage Manual.                                                              |                   | Category "C" Licence                                                                                | Esselenpark            | David Simba    |
| OHE Category "A" Licence Refresher                                                                                                   | Category "A" Brown / Red Licence (Refresher is conducted in two (2) yearly intervals to validate the Licence on an ongoing process) | 3 years, and or more Years | The content of Construction and Maintenance of Overhead Track Equipment Course covers Construction and maintenance of 3kV DC, 25kV AC and 25 kV AC overhead Track Equipment 6.6 kV a, 11 kV AC and 22 kV AC Transmission Line.<br><br>Earthing and Bonding of the return system. |                   | Construction & Maintenance of Overhead Track Equipment Certificate Category "A" Brown / Red Licence |                        |                |
| OHE Category "C" Licence Refresher                                                                                                   | Grade 10 (Refresher is conducted in two (2) yearly intervals to validate the Licence on an ongoing process)                         | 4 days                     | Module covers safety topics relevant to all employees whose duties require them to work "to Clearance From" "Live" High-Voltage Electrical Equipment, from the Electrical Safety Instructions -High Voltage Manual.                                                              |                   | Category "C" Licence                                                                                |                        |                |

| COURSE NAME                                          | ENTRY REQUIREMENTS                                                                                                | DURATION | COURSE DESCRIPTION                                                                                                                                                                                                                                                                                                                                  | ASSESSMENT METHOD | QUALIFICATION /NQF                        | CAMPUS LOCATION/ONLINE | CONTACT PERSON |
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| High Voltage Statutory Safety Training – Educational | Grade 10 (Refresher is conducted in three (3) yearly intervals to validate the certificate on an ongoing process) | 2 days   | <p>Module covers safety topics relevant to all employees whose duties require them to work near exposed “Live” High-Voltage Electrical Equipment, from the Electrical Safety Instructions - High Voltage Manual.</p> <p>The module excludes the operation of a Siding Switch and work permit responsibilities of a responsible person in Charge</p> |                   | Category “C” Licence                      | Esselenpark            | David Simba    |
| High Voltage Statutory Safety Training - Competency  | Grade 10 (Refresher is conducted in three (3) yearly intervals to validate the certificate on an ongoing process) | 3 days   | <p>Module covers safety topics relevant to all employees whose duties require them to work near “Live” High- Voltage Electrical Equipment, from the Electrical Safety Instructions -High Voltage Manual.</p> <p>The module includes the operation of a Siding Switch and work permit responsibilities of a responsible person in Charge</p>         |                   | Certificate of Competency (Orange Card)   |                        |                |
| OHTE Category “C” Licence Refresher                  | Grade 10 (Refresher is conducted in two (2) yearly intervals to validate the Licence on an ongoing process)       | 4 days   | <p>Module covers safety topics relevant to all employees whose duties require them to work in the vicinity of “Live” High-Voltage Electrical Equipment, from the Electrical Safety Instructions - High Voltage Manual.</p> <p>Compliance training for all employees who can’t read and or write e.g. Infra workers, Infra assistants etc.</p>       |                   | High Voltage Safety Awareness Certificate |                        |                |

| COURSE NAME                                                                                 | ENTRY REQUIREMENTS                                                                                                                                                                | DURATION | COURSE DESCRIPTION                                                                                                                                                                                                                                                                                                                                           | ASSESSMENT METHOD | QUALIFICATION /NQF   | CAMPUS LOCATION/ONLINE                                   | CONTACT PERSON                                                                              |
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| TELECOMMUNICATIONS                                                                          |                                                                                                                                                                                   |          |                                                                                                                                                                                                                                                                                                                                                              |                   |                      |                                                          |                                                                                             |
| Optic Fibre-<br>Perform<br>Operational<br>Activities on<br>Non-Metallic<br>Telecom<br>media | Competent in<br>ABET English L3,<br>ABET Maths L2 &<br>Principles of<br>electronics and<br>electricity. Basic<br>hand tools and C<br>Green "Safety on<br>Tracks" ,PC<br>Literate) | 5 days   | <p>Understand the principles and concepts of transmission in non-metallic transmission media</p> <p>Knowledge and skills to conduct tests on nonmetallic transmission media</p> <p>Knowledge and skills to installing non-metallic transmission cables</p> <p>Knowledge and skills to preparing for and the splicing of non-metallic transmission cables</p> | Paper Based       | Letter of Competency | Cape Town/PE/<br>Esselenpark/<br>Bloemfontein/<br>Durban | <p>Nelisa Liwani</p> <p>Steven Hadebe</p> <p>Paul Stapleberg</p> <p>Siyamthanda Maarman</p> |
| Electron<br>Theory                                                                          | Competent in<br>ABET English<br>L3, ABET<br>Maths L1)                                                                                                                             | 5 days   | <p>Knowledge and skills related to Electron theory and the basic principles of electricity</p> <ul style="list-style-type: none"> <li>- OHMS Law</li> <li>- Current Flow</li> <li>- Voltage</li> <li>- Resistance</li> <li>- Inductors</li> <li>- Transistors</li> <li>- Multimeter</li> <li>- Diodes</li> </ul>                                             |                   |                      |                                                          |                                                                                             |
| Introduction<br>to Digital<br>Transmission:<br>PDH & SDH                                    | Competent in<br>ABET English<br>L3,<br>ABET Maths L3)                                                                                                                             | 5 days   | <p>Knowledge to understand the different Digital transmitting methods.</p> <p>Difference between PHD and SDH working</p>                                                                                                                                                                                                                                     |                   |                      |                                                          |                                                                                             |

| COURSE NAME                                            | ENTRY REQUIREMENTS                                                      | DURATION                             | COURSE DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ASSESSMENT METHOD | QUALIFICATION /NQF   | CAMPUS LOCATION/ONLINE                          | CONTACT PERSON                                                                       |
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| Applied Electronics I Designing & Fault Finding        | Electron Theory, Basic Analogue Electronics, Basic Digital Electronics) | 5 weeks                              | <ul style="list-style-type: none"> <li>- Knowledge and skills to underst and how electronic components work</li> <li>- Application in electronic circuits</li> <li>- Fault finding techniques</li> <li>- Application of fault finding techniques in electronic circuits</li> <li>- Knowledge and skills to understand various Integrated Circuits (IC) families</li> <li>- Integrated Circuit memory</li> <li>- Utilise selected supported devices</li> <li>- Knowledge and skills to safely use basic hand tools</li> <li>- Safely use power tool</li> <li>- Safely use welding equipment</li> <li>- Knowledge and skills to safely prepare a coaxial cable for jointing</li> <li>- Knowledge and skills to identify the 4 basic faults and repair them</li> <li>- Basic foundation knowledge about; <ul style="list-style-type: none"> <li>- Transnet Freight Rail</li> <li>- Telecoms</li> <li>- Equipment we maintain and repair</li> <li>- Who is our customer</li> <li>- Safety</li> <li>- Important Policies &amp; Procedures</li> </ul> </li> </ul> | Paper Based       | Letter of Competency | Cape Town/PE/ Esselenpark/ Bloemfontein/ Durban | Nelisa Liwani<br><br>Steven Hadebe<br><br>Paul Stapleberg<br><br>Siyamthanda Maarman |
| Applied Electronics II Memories & Programming of chips | Applied Electronics I                                                   | 2 weeks                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   |                      |                                                 |                                                                                      |
| Basic Hand Tools                                       | English Literacy                                                        | 4 weeks                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   |                      |                                                 |                                                                                      |
| Cabling Outdoor                                        | ABET English L3, ABET Maths L2                                          | 1 week                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   |                      |                                                 |                                                                                      |
| Cabling Indoor                                         | ABET English L3, ABET Maths L2                                          | 2 week Bursary students and SS & SST |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   |                      |                                                 |                                                                                      |
| Introduction to TFR Telecoms                           | TFR Employee, English Literacy                                          | 2 weeks                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   |                      |                                                 |                                                                                      |

| COURSE NAME                                        | ENTRY REQUIREMENTS                                                                                                                              | DURATION                                  | COURSE DESCRIPTION                                                                                                                                                                                                                         | ASSESSMENT METHOD | QUALIFICATION /NQF   | CAMPUS LOCATION/ONLINE                          | CONTACT PERSON                                                                       |
|----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------------------|-------------------------------------------------|--------------------------------------------------------------------------------------|
| FOX 505 Multiplexer                                | EIntro to Digital Transmission & Basic PDH and SDH working                                                                                      | 1 week Senior<br>2 weeks Bursary students | <ul style="list-style-type: none"> <li>- Basic foundation knowledge about;</li> <li>- Setup, install and commission a FOX505</li> <li>- Configure the cabinet and common interface boards</li> </ul>                                       | Paper Based       | Letter of Competency | Cape Town/PE/ Esselenpark/ Bloemfontein/ Durban | Nelisa Liwani<br><br>Steven Hadebe<br><br>Paul Stapleberg<br><br>Siyamthanda Maarman |
| RAD Multiplexer                                    | Intro to Digital Transmission & Basic PDH and SDH working                                                                                       | 1 week Senior<br>2 weeks Bursary students | <ul style="list-style-type: none"> <li>- Basic foundation knowledge about;</li> <li>- Setup, install and commission a RAD</li> <li>- Configure the cabinet and common interface boards</li> </ul>                                          |                   |                      |                                                 |                                                                                      |
| XMP1 Hardware Interface training and Fault finding | Intro to Digital Transmission & Basic PDH and SDH working                                                                                       | 1 week Senior<br>2 weeks Bursary students | <ul style="list-style-type: none"> <li>- Basic foundation knowledge about;</li> <li>- Setup, install and configure XMP1</li> <li>- Maintain and troubleshoot software</li> <li>- And hardware components of a personal computer</li> </ul> |                   |                      |                                                 |                                                                                      |
| Terminal Equipment                                 | Indoor cabling and Fault finding                                                                                                                | 2 weeks                                   | <ul style="list-style-type: none"> <li>- Basic foundation knowledge about;</li> <li>- Install any Terminal equipment</li> <li>- Managing distribution boards and boxes</li> <li>- Managing UTP cabling and points</li> </ul>               |                   |                      |                                                 |                                                                                      |
| Train Cab System (TCS) Technical                   | Competent Basic Radio, C Green "Safety on Tracks", Applied Electronics and Basic Computers and Windows (Technical) Basic Hand Tools, Multimeter | 5 days                                    | <ul style="list-style-type: none"> <li>- Knowledge and skills to replace a faulty Train Control System Radio</li> <li>- 3 and 4</li> </ul>                                                                                                 |                   |                      |                                                 |                                                                                      |
| Mobile Radio Installations (Radio)                 |                                                                                                                                                 | 1 week                                    | <ul style="list-style-type: none"> <li>- Knowledge and skills to safely perform mobile radio installations</li> <li>- Understand the effects of Antenna placement</li> </ul>                                                               |                   |                      |                                                 |                                                                                      |

| COURSE NAME                        | ENTRY REQUIREMENTS                                                                                                          | DURATION                                      | COURSE DESCRIPTION                                                                                                                                                                                                                                                                                                                             | ASSESSMENT METHOD | QUALIFICATION /NQF   | CAMPUS LOCATION/ONLINE                          | CONTACT PERSON                                                                       |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------------------|-------------------------------------------------|--------------------------------------------------------------------------------------|
| Radio Fault Finding (Radio)        | Multimeters                                                                                                                 | 4 weeks                                       | <ul style="list-style-type: none"> <li>- Knowledge and skills to understand radio theory</li> <li>- Perform fault finding on radio equipment</li> </ul>                                                                                                                                                                                        | Paper Based       | Letter of Competency | Cape Town/PE/ Esselenpark/ Bloemfontein/ Durban | Nelisa Liwani<br><br>Steven Hadebe<br><br>Paul Stapleberg<br><br>Siyamthanda Maarman |
| RTO High-Site                      | Multimeter, Computer Literate, Windows Technical, Radio Networks, Radio Fault Finding, Able to use Telecommunication Tester | 1 week Senior<br><br>2 weeks Bursary students | <ul style="list-style-type: none"> <li>- Knowledge and skills to maintain, program and repair the Radio Train Order equipment</li> </ul>                                                                                                                                                                                                       |                   |                      |                                                 |                                                                                      |
| T8100 Repeater for new RTO upgrade | Computer Literate, Windows Technical, Radio Fault Finding                                                                   | 5 days                                        | <ul style="list-style-type: none"> <li>- Basic foundation knowledge about;</li> <li>- Program the repeater</li> <li>- Perform fault finding on the repeater Basic foundation knowledge about;</li> <li>- Program/calibrate the telemeter</li> <li>- Perform fault finding on the telemete</li> <li>- Installation of the telemeterr</li> </ul> |                   |                      |                                                 |                                                                                      |
| New Generation Telemeter           | Computer Literate, Windows Technical, Radio Fault Finding                                                                   | 5 days                                        |                                                                                                                                                                                                                                                                                                                                                |                   |                      |                                                 |                                                                                      |

| COURSE NAME        | ENTRY REQUIREMENTS                                                                                          | DURATION                                  | COURSE DESCRIPTION                                                                | ASSESSMENT METHOD | QUALIFICATION /NQF   | CAMPUS LOCATION/ONLINE                          | CONTACT PERSON                                                           |
|--------------------|-------------------------------------------------------------------------------------------------------------|-------------------------------------------|-----------------------------------------------------------------------------------|-------------------|----------------------|-------------------------------------------------|--------------------------------------------------------------------------|
| TELECOMMUNICATION  |                                                                                                             |                                           |                                                                                   |                   |                      |                                                 |                                                                          |
| Trunking High-Site | Computer Literate, Windows Technical, Radio Fault Finding, Multimeter, Radio Networks, Communication Tester | 1 week Senior<br>2 weeks Bursary students | Knowledge and skills to maintain, program and repair the Radio Trunking equipment |                   |                      |                                                 | Nelisa Liwani<br>Steven Hadebe<br>Paul Stapleberg<br>Siyamthanda Maarman |
| Telemeters         | Computer Literate, Windows Technical, Radio Fault Finding, Multimeter                                       | 1 week Senior<br>2 weeks Bursary students | Knowledge and skills to maintain, program and repair the Telemeters               | Paper Based       | Letter of Competency | Cape Town/PE/ Esselenpark/ Bloemfontein/ Durban | Nelisa Liwani<br>Steven Hadebe<br>Paul Stapleberg<br>Siyamthanda Maarman |



# FACULTY OF ENGINEERING & PIPELINES



| COURSE NAME              | ENTRY REQUIREMENTS                                                                                            | DURATION                                                                                                         | COURSE DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ASSESSMENT METHOD                                                                                                | QUALIFICATION /NQF              | CAMPUS LOCATION/ONLINE                                                         |  |
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| Diesel Electrical Fitter | N2, Maths, Science & Trade Related Theory or Grade 12 with Maths & Science or NCV Level 3 or Technical Matric | Number of modules: 54<br><br>Duration per module: ± 12 days<br><br>Total course duration: 650 days (± 33 months) | Objective:<br>Examine, test, repair and maintain electrical and mechanical components on a locomotive.<br><br>Module:<br>Phase 1:<br>- Meters, Conductors,& Insulators<br>- Basic Circuits<br>- AC & DC Generators, Transformers and Motors<br>- Reading of Drawings<br>- Basic Tools,<br>- iling, Fitting & Chiselling.<br><br>Phase 2:<br>- Soldering and Electronic Projects<br>- Resistors, Inductors, Capacitors<br>- Rectifiers & Transistors<br>- Thyristors and UJTs<br>- Basic internal Combustion Engines.<br><br>Phase 3:<br>- Batteries<br>- Electrical Rotating Equipment<br>- Water System<br>- Oil, Fuel & Air System<br>- Hydraulics<br>- Vacuum and Air Brakes<br>- Turbo charger Air and Exhaust System Theory/Practical: 297 days (±15 Months)<br><br>On-the-Job Training: 353 days (±18 months) | 1. Formative Assessment (criterion and Phase Test).<br><br>2. Final Integrated Summative Assessment (Trade Test) | QCTO Red Seal Certificate NQF 4 | Uitenhage<br>Germiston<br>Salt River<br>Koedoespoort<br>Bloemfontein<br>Durban |  |

| COURSE NAME     | ENTRY REQUIREMENTS                                                                                            | DURATION                                                                                                       | COURSE DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ASSESSMENT METHOD                                                                                                    | QUALIFICATION /NQF              | CAMPUS LOCATION/ONLINE |  |
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| Diesel Mechanic | N2, Maths, Science & Trade Related Theory or Grade 12 with Maths & Science or NCV Level 3 or Technical Matric | Number of modules: 37<br><br>Duration per module: ±19 days<br><br>Total course duration: 690 days (±35 Months) | <p>Objective:<br/>Tests and repairs commercial vehicles (more than 3 tons GMV) including engines, mechanical parts, transmissions, suspension, steering and brakes.</p> <p>Module:<br/>Phase 1:<br/>           - Lubricants and metals<br/>           - Gaskets and seals<br/>           - Heavy duty vehicle components<br/>           - Basic electricity &amp; electronics<br/>           - Minor service to a heavy-duty vehicle</p> <p>Phase 2:<br/>           - Transmissions<br/>           - Exhaust System<br/>           - Cooling System<br/>           - Suspension And Steering Systems<br/>           - Starting System<br/>           - Brake Systems</p> <p>Phase 3:<br/>           - Fuel injection systems<br/>           - Diagnose &amp; faults finding<br/>           - Auxiliary and engine management systems</p> <p>Theory/Practical:<br/>360 days (±18 Months)</p> <p>On-the-Job Training:<br/>330 days (±17 Months)</p> | 1.<br>Formative Assessment (criterion & Phase Test).<br><br>2.<br>Final Integrated Summative Assessment (Trade Test) | QCTO Red Seal Certificate NQF 4 | Durban                 |  |

| COURSE NAME | ENTRY REQUIREMENTS                                                                                            | DURATION                                                                                                        | COURSE DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ASSESSMENT METHOD                                                                                                      | QUALIFICATION /NQF              | CAMPUS LOCATION/ONLINE                                                         |  |
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| Welder      | N2, Maths, Science & Trade Related Theory or Grade 12 with Maths & Science or NCV Level 3 or Technical Matric | Number of modules: 33<br><br>Duration per module: ±21 days<br><br>Total course duration: 662 days (± 33 months) | <p>Objective:<br/>Welders cut, shape and join sections of metal plate and pipes in a wide range of industries. These include construction and engineering, transport, aerospace, and offshore oil and gas. They also carry out repairs on manufacturing equipment and machinery.</p> <p>Module:<br/>Phase 1:<br/>           - Oxy-Acetylene welding<br/>           - Flame Cutting &amp; Welding Inspection<br/>           - Brazing<br/>           - Reading of Drawings<br/>           - Tools &amp; Measuring.<br/>           - Grinding, Drilling, Tapping, Threading, Reaming and Sawing Procedures.</p> <p>Phase 2:<br/>           - THeat Treatment<br/>           - Shielded Metal Arc Welding<br/>           - Gas Tungsten Arc Welding<br/>           - Aluminium Welding<br/>           - Plating<br/>           - Arc Air Gouging</p> <p>Phase 3:<br/>           - Gas Metal Arc Welding<br/>           - Stainless Steel Welding<br/>           - High Stress Welding<br/>           - Cast Iron Welding</p> <p>Theory/Practical:<br/>424 days (±21 Months)</p> <p>On-the-Job Training:<br/>238 days (±12 Months)</p> | 1.<br>Formative Assessment (criterion and Phase Test).<br><br>2.<br>Final Integrated Summative Assessment (Trade Test) | QCTO Red Seal Certificate NQF 4 | Uitenhage<br>Germiston<br>Salt River<br>Koedoespoort<br>Bloemfontein<br>Durban |  |

| COURSE NAME | ENTRY REQUIREMENTS                                                                                            | DURATION                                                                                          | COURSE DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ASSESSMENT METHOD                                                                                                      | QUALIFICATION /NQF              | CAMPUS LOCATION/ONLINE                                                        |  |
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| Electrician | N2, Maths, Science & Trade Related Theory or Grade 12 with Maths & Science or NCV Level 3 or Technical Matric | Number of modules: 44<br><br>Duration per module: ±14 days<br><br>Total course duration: 607 days | <p>Objective:<br/>Electrician's plan, prepare installs, tests, connects, commissions, maintains and alter/repair electrical equipment, wiring and control systems and apply the knowledge and skills obtained, in a variety of contexts</p> <p>Module:<br/>Phase 1:<br/>           - Basic Circuits, Meters, Conductors, Insulators and Soldering<br/>           - Electrical Safety and Isolation<br/>           - AC Generators and Single-Phase Transformers<br/>           - Wire Ways<br/>           - Installing Earthing and Wiring<br/>           - Contactors and Relays<br/>           Phase 2:<br/>           - Resistor and Circuits Multipliers &amp; Shunts<br/>           - Diodes Capacitors Induction Rectification<br/>           - Welding<br/>           - Instruments and Wave Form<br/>           - DC Generators &amp; DC Motors<br/>           - Overhaul and Testing of Dc Motors<br/>           - Single &amp; Three -Phase Induction Motors<br/>           Phase 3:<br/>           - Transistor Amplification<br/>           - Thyristors and UJT<br/>           - Three-Phase Transformers &amp; Motor Starting<br/>           - Automatic Switching and Braking<br/>           - Schematic and Fault Finding<br/>           - Programmable Logic Controller<br/>           - Variable Speed Drives</p> <p>Theory/Practical: 307 days<br/>On-the-Job Training: 240 days</p> | 3.<br>Formative Assessment (criterion and Phase Test).<br><br>4.<br>Final Integrated Summative Assessment (Trade Test) | QCTO Red Seal Certificate NQF 4 | Germiston<br>Salt River<br>Koedoesport<br>Durban<br>Uitenhage<br>Bloemfontein |  |

| COURSE NAME       | ENTRY REQUIREMENTS                                                                                            | DURATION                                                                                          | COURSE DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ASSESSMENT METHOD                                                                                                | QUALIFICATION /NQF              | CAMPUS LOCATION/ONLINE                                              |  |
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| Electrical Fitter | N2, Maths, Science & Trade Related Theory or Grade 12 with Maths & Science or NCV Level 3 or Technical Matric | Number of modules: 57<br><br>Duration per module: ±11 days<br><br>Total course duration: 625 days | <p>Objective:<br/>To repair compressors, exhausters, main alternators, main generators, and traction motors are overhauled.</p> <p>Module:<br/>Phase 1:</p> <ul style="list-style-type: none"> <li>- Basic Circuits, Meters, Conductors, Insulators and Soldering</li> <li>- Electrical Safety and Isolation</li> <li>- AC Generators and Single-Phase Transformers</li> <li>- Wire Ways</li> <li>- Installing Earthing and Wiring</li> <li>- Contactors and Relays</li> </ul> <p>Phase 2:</p> <ul style="list-style-type: none"> <li>- Wire and Air Ways</li> <li>- Heater and Lighting Circuits</li> <li>- Shaft Alignment</li> <li>- Lubrication and Bearings</li> <li>- Instrument and Wave Forms</li> <li>- Resistors and Resistor Circuits</li> <li>- Multipliers and Shunts</li> <li>- Capacitors Inductors Diodes</li> <li>- Rectifiers Transistors Thyristors</li> <li>- Soldering and Lay-Out Of Components</li> <li>- Programmable Logic Controllers</li> </ul> <p>Phase 3:</p> <ul style="list-style-type: none"> <li>- Filters and Qualities of Air</li> <li>- Compressor &amp; Exhauster</li> <li>- Advanced Contactors and Relays</li> <li>- Advanced DC Motors</li> <li>- Pantographs Bogies Wheels</li> <li>- Basic air valves Vacuum valves Air valves</li> <li>- Basic Brake System (CLASS 6E1)</li> <li>- Earthing</li> </ul> | 5.<br>Formative Assessment (criterion and Phase Test).<br><br>Final Integrated Summative Assessment (Trade Test) | QCTO Red Seal Certificate NQF 4 | Uitenhage<br>Germiston<br>Salt River<br>Koedoesport<br>Bloemfontein |  |

| COURSE NAME        | ENTRY REQUIREMENTS                                                                                            | DURATION                                                                                                 | COURSE DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ASSESSMENT METHOD                                                                                             | QUALIFICATION /NQF              | CAMPUS LOCATION/ONLINE                                                                  |  |
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|                    |                                                                                                               |                                                                                                          | <ul style="list-style-type: none"> <li>- Advanced Schematics Fault finding</li> <li>- Sequence and Power Testing</li> <li>- Basic Brake Testing</li> <li>- Electrical Motive power Vehicle Maintenance</li> </ul> <p>Theory/Practical: 326 days<br/>On-the-Job Training: 299 days</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                               |                                 |                                                                                         |  |
| Turner & Machinist | N2, Maths, Science & Trade Related Theory or Grade 12 with Maths & Science or NCV Level 3 or Technical Matric | <p>Number of modules: 27</p> <p>Duration per module: ±22 days</p> <p>Total course duration: 625 days</p> | <p>Objective:<br/>The purpose of this qualification is to create precision parts used in manufacturing and engineering.</p> <p>Module:</p> <p>Phase 1:</p> <ul style="list-style-type: none"> <li>- Metals, cutting speed, r/min and Grinding single point cutting tools</li> <li>- Elementary Turning 1 &amp;2</li> <li>- Milling machine operation</li> <li>- Taper Turning</li> <li>- Taper Turning</li> <li>- MV milling in a vice</li> </ul> <p>Phase 2:</p> <ul style="list-style-type: none"> <li>- Turning external V screw thread</li> <li>- Turning square and ACME screw threads</li> <li>- Grinding internal and external</li> <li>- Milling with a dividing head</li> <li>- Milling with a turning table</li> <li>- Milling Gears</li> <li>- Welding</li> <li>- Basic principle of NC and CNC controlled machine</li> <li>- Surface grinding</li> <li>- Wheel shop training</li> </ul> | <p>6. Formative Assessment (criterion and Phase Test). Final Integrated Summative Assessment (Trade Test)</p> | QCTO Red Seal Certificate NQF 4 | <p>Uitenhage</p> <p>Salt River</p> <p>Koedoesport</p> <p>Bloemfontein</p> <p>Durban</p> |  |

| COURSE NAME | ENTRY REQUIREMENTS                                                                                            | DURATION                                                                                                 | COURSE DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ASSESSMENT METHOD                                                                                                     | QUALIFICATION /NQF              | CAMPUS LOCATION/ONLINE                   |  |
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|             |                                                                                                               |                                                                                                          | <p>Phase 3:</p> <ul style="list-style-type: none"> <li>- Turning double starts screw threads</li> <li>- Advanced turning</li> </ul> <p>Theory/Practical: 264 days<br/>On-the-Job Training: 240 days</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                       |                                 |                                          |  |
| Toolmaker   | N2, Maths, Science & Trade Related Theory or Grade 12 with Maths & Science or NCV Level 3 or Technical Matric | <p>Number of modules: 37</p> <p>Duration per module: ±15 days</p> <p>Total course duration: 566 days</p> | <p>Objective:<br/>To produce precision tools like jigs, dyes and moulds that are used by engineering to manufacture a range of products.</p> <p>Module:<br/>Phase 1:</p> <ul style="list-style-type: none"> <li>- Slotting Machine</li> <li>- Introduction to the Lathe</li> <li>- Introduction to the Milling machine</li> <li>- Elementary Milling &amp; Turning</li> <li>- Turning Between Centres</li> <li>- Turning Screw Threads</li> </ul> <p>Phase 2:</p> <ul style="list-style-type: none"> <li>- Advance Turning 1 &amp; 2</li> <li>- Forging Dies</li> <li>- Horizontal Forging Dies</li> <li>- The Circular Table</li> <li>- Welding</li> <li>- Advance Milling</li> <li>- The diving Head and Tailstock</li> <li>- Helical and Taper Milling with the Diving Head</li> </ul> <p>Phase 3:</p> <ul style="list-style-type: none"> <li>- Jigs and Fixtures</li> <li>- Hand Fitting</li> <li>- Grinding</li> <li>- Surface Grinding</li> <li>- Cylindric Grinding</li> </ul> | <p>7.<br/>Formative Assessment (criterion and Phase Test).<br/>Final Integrated Summative Assessment (Trade Test)</p> | QCTO Red Seal Certificate NQF 4 | Uitenhage<br>Bloemfontein<br>Koedoesport |  |

| COURSE NAME     | ENTRY REQUIREMENTS                                                                                            | DURATION                                                                                                 | COURSE DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ASSESSMENT METHOD                                                                                                    | QUALIFICATION /NQF              | CAMPUS LOCATION/ONLINE |  |
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|                 |                                                                                                               |                                                                                                          | <ul style="list-style-type: none"> <li>- Tool and Cutter Grinding</li> <li>- Precision Tool and Cutter Grinding</li> <li>- Grinding Drills and Saws</li> <li>- Press Tools (PTA)</li> <li>- Press Tools (PTB)</li> <li>- Heat Treatment</li> <li>- Metrology</li> </ul> <p>Theory/Practical: 436 days<br/>On-the-Job Training: 130 days</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                      |                                 |                        |  |
| Fitter & Turner | N2, Maths, Science & Trade Related Theory or Grade 12 with Maths & Science or NCV Level 3 or Technical Matric | <p>Number of modules: 38</p> <p>Duration per module: ±18 days</p> <p>Total course duration: 688 days</p> | <p>Objective:<br/>The purpose of this qualification is to fabricates metal parts, fits, assemblies, maintains and repairs mechanical components, subassemblies and machines.</p> <p>Module:<br/>Phase 1:</p> <ul style="list-style-type: none"> <li>- Machining Knowledge</li> <li>- Electronic Power Tools</li> <li>- Milling Operation</li> <li>- Lubrication</li> <li>- Bearings</li> <li>- Elementary Turning</li> </ul> <p>Phase 2:</p> <ul style="list-style-type: none"> <li>- Oxy Acetylene Cutting, welding, brazing</li> <li>- Shielded Metal Arc Welding</li> <li>- Taper Turning (TT1 &amp;2) Mill Dividing, turning, gears</li> <li>- Key &amp;Locking Device</li> <li>- Mechanical Pumps</li> <li>- Machine Installation</li> <li>- Lifting Equipment</li> <li>- Millwright Riggig</li> <li>- Hydraulics</li> </ul> | <p>8.<br/>Formative Assessment (criterion and PhaseTest).<br/>Final Integrated Summative Assessment (Trade Test)</p> | QCTO Red Seal Certificate NQF 4 | Durban                 |  |

| COURSE NAME     | ENTRY REQUIREMENTS                                                                                            | DURATION                                                                                                 | COURSE DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ASSESSMENT METHOD                                                                                                  | QUALIFICATION /NQF              | CAMPUS LOCATION/ONLINE |  |
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|                 |                                                                                                               |                                                                                                          | <ul style="list-style-type: none"> <li>- Pneumatics</li> <li>- Power Transmission</li> <li>- Millwright Pipe Work</li> <li>- Valves</li> </ul> <p>Phase 3:</p> <ul style="list-style-type: none"> <li>- Conveyers</li> <li>- Compressors</li> <li>- Alignment</li> <li>- Overhead Cranes</li> <li>- V-Screw Threads</li> <li>- Square Threads</li> </ul> <p>Theory/Practical: 478 days<br/>On-the-Job Training: 210 days</p>                                                                                                                                                                                                                                                                     |                                                                                                                    |                                 |                        |  |
| Armature Winder | N2, Maths, Science & Trade Related Theory or Grade 12 with Maths & Science or NCV Level 3 or Technical Matric | <p>Number of modules: 31</p> <p>Duration per module: ±18 days</p> <p>Total course duration: 688 days</p> | <p>Objective:<br/>Examine, test, repair and maintain electrical and mechanical components on a locomotive.</p> <p>Module:<br/>Phase 1:</p> <ul style="list-style-type: none"> <li>- Meters, Conductors, and Insulators</li> <li>- Basic Circuits</li> <li>- AC &amp; DC Generators, Transformers and Motors</li> <li>- Reading of Drawings</li> <li>- Basic Tools,</li> <li>- Filing, Fitting &amp; Chiselling.</li> </ul> <p>Phase 2:</p> <ul style="list-style-type: none"> <li>- Soldering and Electronic Projects</li> <li>- Resistors, Inductors, Capacitors</li> <li>- Rectifiers &amp; Transistors</li> <li>- Thyristors and UJTs</li> <li>- Basic internal Combustion Engines</li> </ul> | <p>9.<br/>Formative Assessment (criterion and PhaseTest).</p> <p>10.<br/>Final Integrated Summative Assessment</p> | QCTO Red Seal Certificate NQF 4 | FoE-Koedoespoort       |  |

| COURSE NAME                        | ENTRY REQUIREMENTS                                                                                            | DURATION                                                                                          | COURSE DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ASSESSMENT METHOD                                                                                                        | QUALIFICATION /NQF              | CAMPUS LOCATION/ONLINE                                                    |  |
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|                                    |                                                                                                               |                                                                                                   | Phase 3:<br>- Batteries<br>- Electrical Rotating Equipment<br>- Water System<br>- Oil, Fuel & Air System<br>- Hydraulics<br>- Vacuum and Air Brakes<br>- Turbo charger Air and Exhaust System<br><br>Theory/Practical: 297 days (±15 Months)<br>On-the-Job Training: 353 days (±18 months)                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                          |                                 |                                                                           |  |
| Millwright<br>(Electromechanician) | N2, Maths, Science & Trade Related Theory or Grade 12 with Maths & Science or NCV Level 3 or Technical Matric | Number of modules: 55<br><br>Duration per module: ±13 days<br><br>Total course duration: 719 days | Objective:<br>To carry out regular maintenance checks on systems and testing mechanical, electrical and pneumatic systems before reassembly, further writing reports and updating maintenance records<br><br>Module:<br>Phase 1:<br>- Grinder Repairs and Power Tool<br>- Welding<br>- Conductors, Insulators and Soldering<br>- Materials and Plastics<br>- Working at Heights Training<br><br>Phase 2:<br>- Lubrication and Bearings<br>- Alignment and Power Transmission<br>- Overhead Cranes<br>- Keys and Locking Devices<br>- Basic circuits and Meters<br>- Contactors and Relays<br>- Wire Ways and Lighting Circuits<br>- Overhaul and Testing of DC Motors | 11.<br>Formative Assessment (criterion and Phase Test).<br><br>12.<br>Final Integrated Summative Assessment (Trade Test) | QCTO Red Seal Certificate NQF 4 | Uitenhage , Germiston, Salt River, Koedoespoort , Bloemfontein and Durban |  |

| COURSE NAME            | ENTRY REQUIREMENTS                                                                                            | DURATION                                                                                                 | COURSE DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ASSESSMENT METHOD                                                                                                        | QUALIFICATION /NQF              | CAMPUS LOCATION/ONLINE                         |  |
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|                        |                                                                                                               |                                                                                                          | <p>Phase 3:</p> <ul style="list-style-type: none"> <li>- Pneumatic</li> <li>- Hydraulic</li> <li>- Millwright Pumps</li> <li>- Machine Installation and Rigging</li> <li>- Use of lifting Equipment</li> <li>- Direct Starters</li> <li>- Schematics and Fault Finding</li> <li>- Programmable Logic Controllers</li> </ul> <p>Theory/Practical: 421 days<br/>On-the-Job Training: 238 days</p>                                                                                                                                                                                                                                              |                                                                                                                          |                                 |                                                |  |
| Mechanical Fitter (ET) | N2, Maths, Science & Trade Related Theory or Grade 12 with Maths & Science or NCV Level 3 or Technical Matric | <p>Number of modules: 24</p> <p>Duration per module: ±19 days</p> <p>Total course duration: 478 days</p> | <p>Objective:<br/>Mechanical fitters fit and assemble metal parts to fabricate production machines and other equipment. They use a range of tools and engineering techniques to maintain and repair mechanical plant machinery and equipment to operational standards.</p> <p>Module:<br/>Phase 1:</p> <ul style="list-style-type: none"> <li>- Rigging</li> <li>- Welding</li> <li>- Advanced Marking Off</li> <li>- Pipework</li> <li>- Lubrication</li> </ul> <p>Phase 2:</p> <ul style="list-style-type: none"> <li>- Hydraulics</li> <li>- Pneumatics</li> <li>- Power Transmission</li> <li>- Bearings</li> <li>- Alignment</li> </ul> | <p>11. Formative Assessment (criterion and Phase Test)</p> <p>13. Final Integrated Summative Assessment (Trade Test)</p> | QCTO Red Seal Certificate NQF 4 | Germiston, Salt River, Bloemfontein and Durban |  |

| COURSE NAME         | ENTRY REQUIREMENTS            | DURATION                                                                                                 | COURSE DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ASSESSMENT METHOD                                                                                                          | QUALIFICATION /NQF | CAMPUS LOCATION/ONLINE                                                  |  |
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|                     |                               |                                                                                                          | <p>Phase 3:</p> <ul style="list-style-type: none"> <li>- Basic Sliding</li> <li>- Repair And Test Of Chain Blocks</li> <li>- Overhead Electrical Cranes</li> <li>- Millwright Pumps</li> <li>- Machine Installation</li> </ul> <p>Theory/Practical: 210 days<br/>On-the-Job Training: 268 days</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                            |                    |                                                                         |  |
| Examiner & Repairer | Grade 12 with maths & Science | <p>Number of modules: 61</p> <p>Duration per module: ±18 days</p> <p>Total course duration: 506 days</p> | <p>Objective:<br/>To maintain and restore all forms of rolling stock in the rail industry including maintaining parts and components</p> <p>Module:<br/>Phase 1:</p> <ul style="list-style-type: none"> <li>- Materials and Machinery</li> <li>- Tools And Equipment</li> <li>- Wagon Maintenance Measuring Instruments</li> <li>- Elementary Reading Of Drawings</li> <li>- Filing, Fitting, Chiselling &amp; Stud Removal</li> <li>- Fitting Of Vacuum Pipes</li> </ul> <p>Phase 2:</p> <ul style="list-style-type: none"> <li>- Couplers and Draw Gears</li> <li>- Sealing Of Vacuum System</li> <li>- Collisions, Derailments And Accidents</li> <li>- XB-Mass Powder Tank Wagons</li> <li>- Quality Management System (31 Point System)</li> </ul> <p>Phase 3:</p> <ul style="list-style-type: none"> <li>- Movable Steel</li> <li>- Delays And Incidents</li> <li>- Over Border Examination</li> </ul> | <p>1. Formative Assessment (criterion &amp; Phase Test).</p> <p>14. Final Integrated Summative Assessment (Trade Test)</p> | Certificate        | Koedoespoort, Germiston, Salt River, Uitenhage, Bloemfontein and Durban |  |

| COURSE NAME            | ENTRY REQUIREMENTS            | DURATION                                                                                                | COURSE DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ASSESSMENT METHOD                                                                                                          | QUALIFICATION /NQF | CAMPUS LOCATION/ONLINE                                                 |  |
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|                        |                               |                                                                                                         | <ul style="list-style-type: none"> <li>- Hot Axle Boxes</li> <li>- In-Service Wagon Maintenance</li> </ul> <p>Phase 4</p> <ul style="list-style-type: none"> <li>- Steam Heating System</li> <li>- Scheduled Coach Repairs</li> <li>- Pulley Wheels</li> <li>- Examination Of Passenger Trains</li> </ul> <p>Phase 5</p> <ul style="list-style-type: none"> <li>- Compressed Air Brake 1</li> <li>- Computerized Single Wagon Testing Device</li> <li>- Wabtec Wiring Wagon Brake System</li> <li>- Wabtec Single Car Test</li> <li>- Knorr-Bremse Single Car Test</li> </ul> <p>Theory/Practical: 224 days<br/>On-the-Job Training: 282 days</p> |                                                                                                                            |                    |                                                                        |  |
| Maintenance Assistance | Grade 12 with maths & Science | <p>Number of modules: 27</p> <p>Duration per module: ±5 days</p> <p>Total course duration: 123 days</p> | <p>Objective:<br/>To maintain and restore all forms of rolling stock in the rail industry including maintaining parts and components.</p> <p>Module:<br/>Phase 1:</p> <ul style="list-style-type: none"> <li>- Basic Orientation for Wagon Maintenance</li> <li>- Basic Correspondence and Circulars</li> <li>- Basic Material</li> <li>- Basic Machinery</li> <li>- Basic Tools and Equipment</li> </ul> <p>Phase 2:</p> <ul style="list-style-type: none"> <li>- Basic Underframe and Components</li> <li>- Basic Body, Doors and Components</li> </ul>                                                                                         | <p>1. Formative Assessment (criterion &amp; Phase Test).</p> <p>14. Final Integrated Summative Assessment (Trade Test)</p> | Certificate        | Koedoespoort, Germiston, Salt River, Uitenhage Bloemfontein and Durban |  |

| COURSE NAME | ENTRY REQUIREMENTS                                                                                            | DURATION                                                                                                 | COURSE DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ASSESSMENT METHOD                                                                                                        | QUALIFICATION /NQF              | CAMPUS LOCATION/ONLINE                          |  |
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|             |                                                                                                               |                                                                                                          | <ul style="list-style-type: none"> <li>- Basic Draw Gears, hand brakes , wagon bogies and stencilling</li> <li>- Basic Out Of Service Depot Administration</li> <li>- Basic Compressed Air Brake</li> <li>- Basic XB-Mass Powder Tank Wagons</li> </ul> <p>Phase 3:</p> <ul style="list-style-type: none"> <li>- Basic Examination of Goods Trains</li> <li>- Basic Wagons for Special Commodities</li> <li>- Basic Hot Axle Boxes</li> </ul> <p>Phase 4</p> <ul style="list-style-type: none"> <li>- Basic Scheduled Coach Repairs</li> <li>- Basic Pulley Wheels</li> </ul> <p>Theory/Practical: 52 days<br/>On-the-Job Training: 67 days</p> |                                                                                                                          |                                 |                                                 |  |
| Blacksmith  | N2, Maths, Science & Trade Related Theory or Grade 12 with Maths & Science or NCV Level 3 or Technical Matric | <p>Number of modules: 22</p> <p>Duration per module: ±25 days</p> <p>Total course duration: 545 days</p> | <p>Objective:<br/>Blacksmiths shape and join metals such as steel, iron, copper and bronze to make decorative and everyday items. These can include wrought iron gates, railings, furniture, tools and horseshoes.</p> <p>Module:<br/>Phase 1:</p> <ul style="list-style-type: none"> <li>- Basic Training 1</li> <li>- Heating Equipment &amp; Material</li> <li>- Tools</li> <li>- Material for Forging</li> </ul> <p>Phase 2:</p> <ul style="list-style-type: none"> <li>- Machine Forging</li> <li>- Advanced Forging</li> </ul>                                                                                                            | <p>16. Formative Assessment (criterion and Phase Test).</p> <p>2. Final Integrated Summative Assessment (Trade Test)</p> | QCTO Red Seal Certificate NQF 4 | Faculty of Engineering & Pipelines Koedoespoort |  |

| COURSE NAME | ENTRY REQUIREMENTS                                                                                            | DURATION                                                                                                 | COURSE DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ASSESSMENT METHOD                                                                                                         | QUALIFICATION /NQF              | CAMPUS LOCATION/ONLINE                    |  |
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|             |                                                                                                               |                                                                                                          | <ul style="list-style-type: none"> <li>- Drop Forging</li> <li>- But Welding</li> </ul> <p>Phase 3:</p> <ul style="list-style-type: none"> <li>- Heat Treatment</li> <li>- Laminated Springs</li> <li>- Coil Springs</li> </ul> <p>Theory/Practical: 361 days<br/>On-the-Job Training: 124 days</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                           |                                 |                                           |  |
| Boilermaker | N2, Maths, Science & Trade Related Theory or Grade 12 with Maths & Science or NCV Level 3 or Technical Matric | <p>Number of modules: 30</p> <p>Duration per module: ±20 days</p> <p>Total course duration: 605 days</p> | <p>Objective:<br/>Marks off and fabricates structural steel and other metal stock to make or repair metal products and structures which may include pressure vessels and pipes.</p> <p>Module:<br/>Phase 1:</p> <ul style="list-style-type: none"> <li>- Basic Training for Boilermakers</li> <li>- Cutting and Grinding</li> <li>- Basic Welding Practice</li> <li>- Guillotine, Punch and Shear</li> <li>- Box Bender, Folding Machine, Press Brakes</li> <li>- Different Rolling Machines</li> <li>- Pipe Bending and Pipe Work</li> </ul> <p>Phase 2:</p> <ul style="list-style-type: none"> <li>- Riveting</li> <li>- Developing</li> <li>- Gas Metal Arc Welding Down Hand</li> <li>- Stainless Steel Welding</li> <li>- Plasma Cutting</li> <li>- Forming and Bending of Plates</li> <li>- Manufacturing</li> </ul> | <p>1. Formative Assessment (criterion &amp; Phase Test).</p> <p>3. Final Integrated Summative Assessment (Trade Test)</p> | QCTO Red Seal Certificate NQF 4 | Faculty of Engineering & Pipelines Durban |  |

| COURSE NAME     | ENTRY REQUIREMENTS                                                                                            | DURATION                                                                                          | COURSE DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ASSESSMENT METHOD                                                                                              | QUALIFICATION /NQF              | CAMPUS LOCATION/ONLINE                                                                               |  |
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|                 |                                                                                                               |                                                                                                   | Phase 3:<br>- Structural Work<br>- Developing<br><br>Theory/Practical: 307 days<br>On-the-Job Training: 238 days                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                |                                 |                                                                                                      |  |
| Vehicle Builder | N2, Maths, Science & Trade Related Theory or Grade 12 with Maths & Science or NCV Level 3 or Technical Matric | Number of modules: 21<br><br>Duration per module: ±25 days<br><br>Total course duration: 532 days | Objective:<br>Vehicle builders design and build the chassis and body of vehicles such as trucks, trailers and Railway coaches<br><br>Module:<br>Phase 1:<br>- Basic Training 1<br>- Welding<br>- Developing Geometry and Layout<br><br>Phase 2:<br>- Guillotine Punch Shear<br>- Bench Folding, Bending Brake and Press Brake<br>- Soldering & Riveting Methods<br>- Gas Work<br>- Plumbing<br><br>Phase 3:<br>- Sheet Metal<br>- Woodwork<br>- Plastic Laminate<br>- Remove and Replace Coach Components<br><br>Theory/Practical: 217 days<br>On-the-Job Training: 255 days | 1. Formative Assessment (criterion & Phase Test).<br><br>4. Final Integrated Summative Assessment (Trade Test) | QCTO Red Seal Certificate NQF 4 | Faculty of Engineering & Pipelines Koedoespoort<br><br>Faculty of Engineering & Pipelines Salt River |  |

| COURSE NAME        | ENTRY REQUIREMENTS                                                                                            | DURATION                                                                                          | COURSE DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ASSESSMENT METHOD                                                                                                    | QUALIFICATION /NQF              | CAMPUS LOCATION/ONLINE                                                                         |  |
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| Sheet Metal worker | N2, Maths, Science & Trade Related Theory or Grade 12 with Maths & Science or NCV Level 3 or Technical Matric | Number of modules: 34<br><br>Duration per module: ±16 days<br><br>Total course duration: 567 days | <p>Objective:<br/>Production of the structural steelwork used in the construction of bridges, buildings and oil and gas installations for the engineering, Construction and Manufacturing Industries.</p> <p>Module:<br/>Phase 1:<br/>- Basic Hand-tools<br/>- MACHINES</p> <p>Phase 2:<br/>- Gas Metal Arch Welding<br/>- Gas Tungsten Arc Welding<br/>- Stainless Steel Welding (SSW)<br/>- Basic Principle of Joint (BPJ)<br/>- Riveting<br/>- Notching, Wiring, Raising (NWR)<br/>- Developing Geometry and Layout (DEVR)</p> <p>Phase 3:<br/>- Manufacturing (MAN1)<br/>- Structural work<br/>- Developing</p> <p>Theory/Practical: 266 days</p> <p>On-the-Job Training: 241 days</p> | 1.<br>Formative Assessment (criterion & Phase Test).<br><br>2.<br>Final Integrated Summative Assessment (Trade Test) | QCTO Red Seal Certificate NQF 4 | Faculty of Engineering & Pipelines Salt River<br><br>Faculty of Engineering & Pipelines Durban |  |

| COURSE NAME | ENTRY REQUIREMENTS                                                                                            | DURATION                                                                                          | COURSE DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ASSESSMENT METHOD                                                                                                    | QUALIFICATION /NQF              | CAMPUS LOCATION/ONLINE                                                                                                                                                                                                                                           |  |
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| Plater      | N2, Maths, Science & Trade Related Theory or Grade 12 with Maths & Science or NCV Level 3 or Technical Matric | Number of modules: 37<br><br>Duration per module: ±15 days<br><br>Total course duration: 568 days | Objective:<br>Production of the structural steelwork used in the construction of bridges, buildings and oil and gas installations<br><br>Module:<br>Phase 1:<br>- Basic Training<br>- Basic Welding Practice<br>- Machines<br>- Pipe Bending<br>- Bending of Material<br>- Huck Installation Tools<br>- Riveting & Soldering Methods<br><br>Phase 2:<br>- Developing<br>- Gas Metal Arc Welding Downhand<br>- Stainless Steel Welding<br>- Gas Shielded Tungsten Arc Welding<br>- Plasma Cutting<br>- Forming and Bending Of Plates<br>- Manufacture General<br><br>Phase 3:<br>- Structural Work<br>- Developing Radial Line Method<br><br>Theory/Practical: 273 days<br>On-the-Job Training: 235 days | 1.<br>Formative Assessment (criterion & Phase Test).<br><br>3.<br>Final Integrated Summative Assessment (Trade Test) | QCTO Red Seal Certificate NQF 4 | Faculty of Engineering & Pipelines Uitenhage<br><br>Faculty of Engineering & Pipelines Durban<br><br>Faculty of Engineering & Pipelines Salt River<br><br>Faculty of Engineering & Pipelines Koedoespoort<br><br>Faculty of Engineering & Pipelines Bloemfontein |  |

| COURSE NAME  | ENTRY REQUIREMENTS                                                                                            | DURATION                                                                                          | COURSE DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ASSESSMENT METHOD                                                                                                      | QUALIFICATION /NQF              | CAMPUS LOCATION/ONLINE                                                                                                                                                                                                                                        |  |
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| Wagon Fitter | N2, Maths, Science & Trade Related Theory or Grade 12 with Maths & Science or NCV Level 3 or Technical Matric | Number of modules: 42<br><br>Duration per module: ±13 days<br><br>Total course duration: 545 days | Objective:<br>To manufacture and restore all forms of rolling stock in the rail industry including maintaining parts & Components<br><br>Module:<br>Phase 1:<br>- Basic Training<br>- Oxy-Acetylene Cutting<br>- Basic Welding<br>- Arc Air Gouging (AAG)<br>- Plasma Cutting (PLA)<br>- Overhauling & Testing Vacuum Hose (OTH)<br>- Overhauling and Testing Vacuum Cylinders & Release Valves (OTCV)<br>- Riveting and Lock Bolt & "Huck" Application (RLA)<br><br>Phase 2:<br>- Repairing and Testing Draw gear, Couplers and Brake Beam<br>- Overhauling and testing quick release hand brake units (OTQR)<br>- Overhauling and testing slack adjusters (OTSA)<br>- Examination Wheels (EW)<br>- Overhauling various bogies (OB)<br>- Fitting Draw Gears and Couplers (FDGC)<br>- Fitting and Testing Vacuum Piping (FTVP)<br>- Fitting and Testing Vacuum Brake Gear (FVBG) | 2.<br>Formative Assessment (criterion and Phase Test).<br><br>3.<br>Final Integrated Summative Assessment (Trade Test) | QCTO Red Seal Certificate NQF 4 | Faculty of Engineering & Pipelines Uitenhage<br><br>Faculty of Engineering & Pipelines Germiston<br><br>Faculty of Engineering & Pipelines Salt River<br><br>Faculty of Engineering & Pipelines Bloemfontein<br><br>Faculty of Engineering & Pipelines Durban |  |

| COURSE NAME                                                    | ENTRY REQUIREMENTS                                                                                                                                                                        | DURATION | COURSE DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ASSESSMENT METHOD                                                                                                       | QUALIFICATION /NQF                          | CAMPUS LOCATION/ONLINE                       |  |
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|                                                                |                                                                                                                                                                                           |          | <p>Phase 3:</p> <ul style="list-style-type: none"> <li>- Overhauling coach bogies (OCB)</li> <li>- Overhauling steam piping and radiators (OSPR)</li> <li>- Repair and testing various wagons (RTTW)</li> <li>- Straightening wagon components (SWC)</li> <li>- Repairing and Testing Various Tank Wagons (RTVW)</li> <li>- Overhauling and testing air brake valve and components</li> <li>- Computerized Single Car Testing Device (CSCTD)</li> </ul> <p>Theory/Practical: 249 days<br/>On-the-Job Training: 236 days</p>                                                            |                                                                                                                         |                                             |                                              |  |
| Operate counterbalanced lift truck (Forklift 3000kg –15 000kg) | <p>Grade 7 and must be at least 18 years of age.</p> <p>Valid declaration or certificate of medical fitness.</p> <p>Valid eye test results or valid Professional Drivers Permit (PDP)</p> | 70 hours | <p>Objective:</p> <p>Operate a counterbalanced lift truck in a safe manner.</p> <ul style="list-style-type: none"> <li>- Conduct pre and post inspections for performance of the lift truck.</li> <li>- Handle loading, storage of freight by using the equipment and its accessories in the required manner.</li> <li>- Access emergency system and services in the event of an incident or accident.</li> </ul> <p>Module:</p> <p>Operate counterbalanced lift truck (Forklift 3000kg – 15 000kg)</p> <p>Novice: 10 Days Re-certification<br/>Theory = 4hrs<br/>Practical = 1hrs</p> | <p>1. Formative Assessment (criterion and Phase Test).</p> <p>2. Final Integrated Summative Assessment (Trade Test)</p> | Certificate of Competency - Lifting Machine | Faculty of Engineering & Pipelines Uitenhage |  |

| COURSE NAME                                 | ENTRY REQUIREMENTS                                                                                                                                                                        | DURATION | COURSE DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                        | ASSESSMENT METHOD                                                                                                               | QUALIFICATION /NQF                                                                   | CAMPUS LOCATION/ONLINE                                                                                                                                                                                                                 |  |
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| Operate a pendant controlled overhead crane | <p>Grade 7 and must be at least 18 years of age.</p> <p>Valid declaration or certificate of medical fitness.</p> <p>Valid eye test results or valid Professional Drivers Permit (PDP)</p> | 50 hours | <p>Objective:<br/>Demonstrating an integrated practical and theoretical grounding in Crane Operations according to safe handling and maintenance practices in compliance with crane manufacturers and legislated standards.</p> <p>Module:<br/>Operate a pendant controlled overhead crane</p> <p>Theory = 4hrs<br/>Practical = 1hrs</p>                                                                                  | <p>1.<br/>Formative Assessment (criterion and Phase Test).</p> <p>2.<br/>Final Integrated Summative Assessment (Trade Test)</p> | Certificate of Competency - Lifting Machine Operations and/or valid carry card NQF 4 | <p>Faculty of Engineering &amp; Pipelines Uitenhage</p> <p>Faculty of Engineering &amp; Pipelines Salt River</p> <p>Faculty of Engineering &amp; Pipelines Bloemfontein</p> <p>Faculty of Engineering &amp; Pipelines Koedoespoort</p> |  |
| Operate a cab controlled overhead crane     | <p>Grade 7 and must be at least 18 years of age.</p> <p>Valid declaration or certificate of medical fitness.</p> <p>Valid eye test results or valid Professional Drivers Permit (PDP)</p> | 80 hours | <p>Objective:<br/>Demonstrating an integrated practical and theoretical grounding in Crane Operations according to safe handling and maintenance practices in compliance with crane manufacturers and legislated standards.</p> <p>Module:<br/>Operate a pendant controlled overhead crane<br/>Operate a cab controlled overhead crane</p> <p>Novice: 10 Days Re-certification<br/>Theory = 4hrs<br/>Practical = 1hrs</p> | <p>1.<br/>Formative Assessment (criterion and Phase Test).</p> <p>2.<br/>Final Integrated Summative Assessment (Trade Test)</p> | Certificate of Competency - Lifting Machine Operations and/or valid carry card NQF 4 | <p>Faculty of Engineering &amp; Pipelines Uitenhage</p> <p>Faculty of Engineering &amp; Pipelines Bloemfontein</p>                                                                                                                     |  |

| COURSE NAME                    | ENTRY REQUIREMENTS                                                                                                                                                                        | DURATION | COURSE DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ASSESSMENT METHOD                                                                                                               | QUALIFICATION /NQF                                                                   | CAMPUS LOCATION/ONLINE                                                                                                                                                                                                                 |  |
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| Operate truckmounted cranes    | <p>Grade 7 and must be at least 18 years of age.</p> <p>Valid declaration or certificate of medical fitness.</p> <p>Valid eye test results or valid Professional Drivers Permit (PDP)</p> | 80 hours | <p>Objective:<br/>Demonstrating an integrated practical and theoretical grounding in Crane Operations according to safe handling and maintenance practices in compliance with crane manufacturers and legislated standards.</p> <p>Module:<br/>Operate truckmounted cranes</p> <p>Novice: 10 Days Re-certification<br/>Theory = 4hrs<br/>Practical = 1hrs</p>                                                                                                                                                                | <p>1.<br/>Formative Assessment (criterion and Phase Test).</p> <p>2.<br/>Final Integrated Summative Assessment (Trade Test)</p> | Certificate of Competency - Lifting Machine Operations and/or valid carry card NQF 4 | <p>Faculty of Engineering &amp; Pipelines Uitenhage</p> <p>Faculty of Engineering &amp; Pipelines Salt River</p> <p>Faculty of Engineering &amp; Pipelines Bloemfontein</p> <p>Faculty of Engineering &amp; Pipelines Koedoespoort</p> |  |
| Operate overhead/gantry cranes | <p>Grade 7 and must be at least 18 years of age.</p> <p>Valid declaration or certificate of medical fitness.</p> <p>Valid eye test results or valid Professional Drivers Permit (PDP)</p> | 70 hours | <p>Objective:<br/>Understand the functions, safety and suitability of the crane prior to utilization in the freight handling industry. Learners are also able to inspect and record the operational fitness of the components of a crane and be able to access available support systems and emergency services in case of incidents and accidents while operating a overhea/gantry crane.</p> <p>Module:<br/>Operate overhead/gantry cranes<br/>Novice: 10 Days Re-certification<br/>Theory = 4hrs<br/>Practical = 1hrs</p> | <p>1.<br/>Formative Assessment (criterion and Phase Test).</p> <p>2.<br/>Final Integrated Summative Assessment (Trade Test)</p> | Certificate of Competency - Lifting Machine Operations and/or valid carry card NQF 4 | <p>Faculty of Engineering &amp; Pipelines Uitenhage</p> <p>Faculty of Engineering &amp; Pipelines Bloemfontein</p>                                                                                                                     |  |

| COURSE NAME                                                                                          | ENTRY REQUIREMENTS                                                                                                                       | DURATION | COURSE DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ASSESSMENT METHOD                             | QUALIFICATION /NQF        | CAMPUS LOCATION/ONLINE |  |
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| Occupational Certificate:<br>Bulk Materials Handling<br>Plant Operator<br>(Fuel Pipeline Controller) | <p>Grade 12 (Matric) with Communication /Language NQF Level 2.</p> <p>Mathematics/ Numeracy NQF Level 2.</p> <p>Science NQF Level 2.</p> | 281 Days | <p>Objective:<br/>The purpose of this qualification is to prepare a learner to operate as an/a Fuel Pipeline Controller</p> <p>An/A Fuel Pipeline Controller operates monitors and controls pipeline operations for the bulk transport of petroleum, in, through and out of pipeline depots.</p> <p>Module:<br/>KNOWLEDGE MODULES (KM)</p> <p>PRACTICAL MODULES (PM)</p> <p>WORK EXPERIENCE MODULES (WM) = Context 1: Engineering, Chemical, Fabrication, Mining, Ship Making.</p> | Transport education training authority (TETA) | Occupational Certificate: |                        |  |



# FACULTY OF LEADERSHIP AND FUNCTIONAL DEVELOPMENT



| COURSE NAME                      | ENTRY REQUIREMENTS                                                                                                                                                                                                                                                                                                             | DURATION                                                                                                                                               | COURSE DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ASSESSMENT METHOD                                                         | QUALIFICATION /NQF | CAMPUS LOCATION/ONLINE   |  |
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| Next Generation Mentee Programme | <p>Occupying critical, priority and scarce position / role</p> <p>Permanent Transnet employees at level E-L</p> <p>A minimum of 1-2 years in their current role and where possible not older than 45 years of age</p> <p>Must have a clear Individual Development Plan</p> <p>Must not have an active disciplinary record.</p> | <p>Number of modules: 6</p> <p>Duration per module: 20 days theory training during the 1 year on job training</p> <p>Total course duration: 1 year</p> | <p>Objective:<br/>The Next Generation Programme is a mentee programme which is aimed at transferring the skills and knowledge of persons nearing retirement to younger employees (the next generation).</p> <p>Module:</p> <p>Theory:<br/> <ul style="list-style-type: none"> <li>- Personal Mastery</li> <li>- Organisational Mastery</li> <li>- My Performance</li> <li>- Divisional and Job specific training</li> </ul> </p> <p>Practical:<br/> <ul style="list-style-type: none"> <li>- On job transfer of knowledge and skills</li> </ul> </p> | <p>Monthly evaluation by Mentor</p> <p>3 monthly programme Evaluation</p> | N/A                | Organisational Divisions |  |

| COURSE NAME        | ENTRY REQUIREMENTS     | DURATION                                                                                                                             | COURSE DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ASSESSMENT METHOD | QUALIFICATION /NQF | CAMPUS LOCATION/ONLINE |  |
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| Capital Management | Read and write English | <p>Number of modules: 10 (total of 35 submodules)</p> <p>Duration per module: 120 minutes</p> <p>Total course duration: 70 hours</p> | <p>Objective:<br/>To understand and comply with all Capital Management Policies, Frameworks, Manuals and Standard Operating Procedures and to enable staff to possess discipline specific knowledge and best practice.</p> <p>Module:</p> <p>Theory:</p> <ul style="list-style-type: none"> <li>- Capital organisation business induction</li> <li>- Capital Planning &amp; Portfolio formulation</li> <li>- Capital Optimised solutions</li> <li>- Capital Governance Policies and Frameworks</li> <li>- Programme initiation and management</li> <li>- Project Execution &amp; controls, Business preparation</li> <li>- Capital Procurement, contract management and administration</li> <li>- Project Health and Safety, Environment, Quality</li> <li>- Systems and processes</li> <li>- Project and Programme team capability</li> </ul> <p>Practical: N/A</p> | None              | N/A                | Online - eLearning     |  |

| COURSE NAME                                                                    | ENTRY REQUIREMENTS             | DURATION                                                                                                                        | COURSE DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ASSESSMENT METHOD                                             | QUALIFICATION /NQF                                                                                                                       | CAMPUS LOCATION/ONLINE                                                                    |  |
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| Supply Chain Management - Chartered Institute of Procurement and Supply (CIPS) | As per CIPS entry requirements | Qualifications: 1 year<br><br>Action learning programmes: 12-18 months - Management Entry Route (RPL) – dependent on individual | Objective:<br>To enhance the capability and professionalism of Procurement Practitioners through the provision of qualifications and pathways to professional registration through a recognized professional body.<br><br>Pathways to professional registration will include:<br>- Qualifications levels 2-6 in Procurement and Supply (certificate, advanced certificate, diploma, advanced diploma, professional diploma)<br>- Action Learning Programmes<br>- Recognition of Learning (Management Entry Routes) | Qualifications – examinations<br><br>Action Learning projects | Qualifications levels 2-6 in Procurement and Supply (certificate, advanced certificate, diploma, advanced diploma, professional diploma) | Qualifications – online eLearning<br><br>Action Programmes – face to face at Esselen Park |  |
| Public Finance Management Act                                                  | Read and write English         | Number of modules: 3<br><br>Duration per module: 5 hours<br><br>Total course duration: 2 days                                   | Objective:<br>Provide an understanding of the Public Finance Management Act in terms of:<br><br>Modules:<br>Theory:<br>- Governance<br>- Contracts Management<br>- Consequence Management (Line management)<br><br>Practical: N/A                                                                                                                                                                                                                                                                                  | Summative assessment at the end of each module                | N/A                                                                                                                                      | Online and face to face                                                                   |  |

| COURSE NAME                                      | ENTRY REQUIREMENTS                                   | DURATION                                                                                      | COURSE DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ASSESSMENT METHOD                   | QUALIFICATION /NQF | CAMPUS LOCATION/ONLINE |  |
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| Transnet Supervisory Development Programme       | NQF Level 3 with English and Mathematics or Grade 11 | Number of modules: 6<br><br>Duration per module: 2 days<br><br>Total course duration: 12 days | Objective:<br>This qualification is intended for junior managers or those aspiring to these positions<br><br>Modules:<br>1. Communicating Transnet Strategy<br>2. Managing Expenditure<br>3. Health Safety and Environment<br>4. Problem solving<br>5. Service Excellence<br>6. Leading Self<br><br>Theory: Yes<br>Practical: Yes                                                                                                                                                                                                      | Submission of Portfolio of Evidence | NQF LEVEL 4        | Both                   |  |
| Non Accredited Supervisory Development Programme | Current Supervisor or would be Supervisor            | Number of modules: 7<br><br>Duration per module: 2 days<br><br>Total course duration: 16 days | Objective:<br>The programme is aimed at Supervisors or potential Supervisors. Learners work on a practical project for the duration of each phase culminating in a presentation to their management team.<br><br>Modules:<br>1. Overview of the organization.<br>2. The shipping Industry.<br>3. Personal Mastery.<br>4. Supervisory Skills<br>5. Roles and responsibilities of a Supervisor.<br>6. Safety at the terminal.<br>7. Measuring performance.<br>8. Final Evaluation: Problem Solving.<br><br>Theory: Yes<br>Practical: Yes | Project presentation                | N/A                | In Class               |  |

| COURSE NAME      | ENTRY REQUIREMENTS | DURATION                                                                                   | COURSE DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ASSESSMENT METHOD   | QUALIFICATION /NQF | CAMPUS LOCATION/ONLINE |  |
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| Customer Service | English Command    | Number of modules: 1<br><br>Duration per module: 1 day<br><br>Total course duration: 1 day | Objective:<br>The programme is aimed at Supervisors or potential Supervisors. Learners work on a practical project for the duration of each phase culminating in a presentation to their management team.<br><br>Modules:<br>Who is the customer?<br>1. What is customer service?<br>2. Customer etiquette<br>3. Telephone etiquette<br>4. Email etiquette<br>5. Dealing with customers<br>6. Customer centric model<br>7. Customer touch points<br>8. Interaction with customers<br>9. Understanding our customer business<br>10. History of Transnet<br>11. Impact of changes on TPT<br>12. Impact of bad service<br>13. How we lose money<br><br>Theory: Yes<br>Practical: Yes | Informal Assessment | N/A                | Both                   |  |
| Lean Six Sigma   | English Command    | Number of modules: 1<br><br>Duration per module: 1 day<br><br>Total course duration: 1 day | Objective:<br>The course is specifically designed for employees as team members who are expected to support business improvement efforts<br><br>Modules:<br>A. OVERVIEW<br>1. Why Continuous Improvement                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Informal Assessment | N/A                | Both                   |  |

| COURSE NAME | ENTRY REQUIREMENTS      | DURATION                                                                                          | COURSE DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ASSESSMENT METHOD   | QUALIFICATION /NQF | CAMPUS LOCATION/ONLINE |  |
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|             |                         |                                                                                                   | <p>2. Continuous Improvement fit in the organization</p> <p>B. LEAN</p> <ol style="list-style-type: none"> <li>1. Principle of Lean</li> <li>2. Goal alignment</li> <li>3. 5S</li> <li>4. Problem Solving</li> <li>5. Lean workflows</li> <li>6. Leadership routines</li> </ol> <p>C. LEAN SIX SIGMA</p> <ol style="list-style-type: none"> <li>1. Basics of Lean Six Sigma</li> <li>2. Lean Six Sigma belts</li> </ol> <p>Theory: Yes<br/>Practical: Yes</p>                                                                                                                                                                            |                     |                    |                        |  |
| Revenue     | Port operations workers | <p>Number of modules: 1</p> <p>Duration per module: 1 day</p> <p>Total course duration: 1 day</p> | <p>Objective:<br/>This course serves as an introduction to the learner's to the various Terminal Handling Services and cargo handling activities associated with the handling of Breakbulk cargo, Bulk cargo and Vehicles at Ro-Ro, Breakbulk and agricultural terminals.</p> <p>Modules:</p> <ol style="list-style-type: none"> <li>1. Miscellaneous Services: Breakbulk, Bulk and Vehicles</li> <li>2. Miscellaneous Services: Containers. Only applicable at RCB</li> <li>3. Recording Miscellaneous Services</li> <li>4. Completing Miscellaneous Services Notes (Book)</li> <li>5. Checking Miscellaneous Services Notes</li> </ol> | Informal Assessment | N/A                | Both                   |  |

| COURSE NAME           | ENTRY REQUIREMENTS | DURATION                                                                                            | COURSE DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ASSESSMENT METHOD             | QUALIFICATION /NQF | CAMPUS LOCATION/ONLINE |  |
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|                       |                    |                                                                                                     | 6. Creating MSN in SAP<br>7. Converting SAP generated MSNs into miscellaneous orders<br>8. Converting other MSNs into miscellaneous orders.<br><br>Theory: Yes<br>Practical: Yes                                                                                                                                                                                                                                                                                                                                                                                                 |                               |                    |                        |  |
| Corporate Soft Skills | English Command    | Number of modules:<br>1<br><br>Duration per module:<br>1 day<br><br>Total course duration:<br>1 day | Objective:<br>The courses seek to equip employees with tools and knowledge required to successfully and ethically engage people, and more specifically get along easily with workmates and customers, as some of the strategic pillars of Transnet.<br><br>Modules:<br>1. Administration<br>2. Assertiveness<br>3. Business Communication<br>4. Business Report Writing<br>5. Communication Skills<br>6. Conflict Management<br>7. Facilitation<br>8. Leadership Development<br>9. Meeting Management<br>10. Change Management<br>11. Problem Solving<br>12. Presentation Skills | 2 Assessments<br>1 Assignment | N/A                | In Class               |  |

| COURSE NAME                       | ENTRY REQUIREMENTS        | DURATION                                                                                                                                                                                                                     | COURSE DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ASSESSMENT METHOD      | QUALIFICATION /NQF | CAMPUS LOCATION/ONLINE |  |
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|                                   |                           |                                                                                                                                                                                                                              | 13. Stress Management<br>14. Anger Management<br>15. Interpersonal Skills<br>16. Motivating Employees<br>17. Project Management<br>18. Business Writing<br>19. Teamwork and Team Building<br><br>Theory: Yes<br>Practical: Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                        |                    |                        |  |
| Cyber Security Awareness Training | Basic reading and writing | Number of modules: 10<br><br>These modules take a best practice, “micro-learning approach, driving retention by delivering persistent learning in manageable & digestible blocks through 3 to 5 minute videocentric methods. | Objective:<br>Mimecast Awareness Training is a security awareness training and cyber risk management platform that helps you combat information security breaches caused by employee mistakes. Developed by top leadership from the U.S. military, law enforcement, and intelligence community, it makes employees an active part of your defense, instead of your biggest risk, by:<br>a. Providing the best, most engaging content in the industry<br>b. Deploying training persistently, but not intrusively<br>c. Fostering individual responsibility<br><br>Modules:<br>1. Passwords<br>2. Phishing<br>3. Office Hygiene<br>4. Information Protection<br>5. Data in Motion<br>6. Specialty Topics<br>7. Onboarding<br>8. Healthcare (HIPAA)<br>9. DevSecOps | Theoretical assessment | N/A                | Online                 |  |

| COURSE NAME        | ENTRY REQUIREMENTS                      | DURATION                                                | COURSE DESCRIPTION                                                                                                                                                                                                                   | ASSESSMENT METHOD                                                                                                           | QUALIFICATION /NQF | CAMPUS LOCATION/ONLINE                        |  |
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| Microsoft Training | All levels                              | Number of modules: 3<br>Self-study                      | Modules:<br>1. Word<br>2. Excel<br>3. PowerPoint                                                                                                                                                                                     | Theoretical assessments                                                                                                     | N/A                | Computer lab                                  |  |
| Functional SAP     | All levels                              | Number of modules: 1<br>Self-study                      | Objective:<br>Functional module in SAP are the that provide features your business wants. They process orders, track inventory, handle human resources, turn raw data to business intelligence.<br><br>Modules:<br>1. Functional SAP | Theoretical and transaction simulator assessment                                                                            | N/A                | Computer lab                                  |  |
| Transnet 101       | All levels                              | Number of modules: 1<br>Self-study                      | Objective:<br>Transnet 101 is to understand the whole value chain of Transnet<br><br>Modules:<br>Transnet 101                                                                                                                        | Theoretical and transaction simulator assessment                                                                            | N/A                | Computer lab                                  |  |
| First Aid level I  | For employees who cannot read and write | Number of modules: 1<br><br>Duration per module: 3 days | Objective:<br>To provide primary emergency care (first aid) in response to an occupational risk or any health emergency in their specific workplaces                                                                                 | Theory Assessment (80% Pass mark)<br><br>Practical Assessment<br><br>A competence certificate valid for two years is issued | N/A                | The trainers go to the depot for the training |  |

| COURSE NAME        | ENTRY REQUIREMENTS                                                    | DURATION                                                | COURSE DESCRIPTION                                                                                                                                                                                | ASSESSMENT METHOD                                                                                                            | QUALIFICATION /NQF | CAMPUS LOCATION/ONLINE                        |
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| First Aid level II | For employees at ABET level 3                                         | Duration per module: 3 days                             | Objective:<br>To provide primary emergency care (first aid) in response to an occupational risk or any health emergency in their specific workplaces<br><br>Modules:<br>Identify a fire emergency | Theory Assessment (80%. Pass mark)<br><br>Practical Assessment<br><br>A competence certificate valid for two years is issued | N/A                | The trainers go to the depot for the training |
| Basic Firefighting | Is compulsory for every employee                                      | Number of modules: 1<br>Duration per module: 1 day      |                                                                                                                                                                                                   |                                                                                                                              |                    |                                               |
| Fire Team          | Employees who can read and write and at ABET level 3                  | Number of modules: 1<br><br>Duration per module: 3 days | Objective:<br>To provide primary emergency care (first aid) in response to an occupational risk or any health emergency in their specific workplaces                                              |                                                                                                                              |                    |                                               |
| Fire Coordinator   | For employees at Supervisory level                                    | Number of modules: 1<br><br>Duration per module: 4 days | Modules:<br>Advanced fire fighting and fire marshal                                                                                                                                               |                                                                                                                              |                    |                                               |
| Hazmat Awareness   | For all employees involved with the transportation of dangerous goods | Number of modules: 1<br><br>Duration per module: 1 day  | Objective:<br>Provide knowledge and skill to determine the presence of a hazardous material and the basic hazards involved                                                                        |                                                                                                                              |                    |                                               |

| COURSE NAME            | ENTRY REQUIREMENTS   | DURATION                                                | COURSE DESCRIPTION                                                                                             | ASSESSMENT METHOD      | QUALIFICATION /NQF | CAMPUS LOCATION/ONLINE            |  |
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| ISO 9001 2015          | ISO 9001 2015        | Number of modules: 1<br>Duration per module: 1 days     | Modules:<br>ISO 9001 2015                                                                                      | Theoretical assessment | N/A                | TA faculty of Engineering Centres |  |
| Incident Investigation | Read & Write English | Number of modules: 1<br>Duration per module: 3 days     | Objective:<br>Investigation of the incident according to legislation<br><br>Modules:<br>Incident Investigation | Theoretical assessment | NQF 3              | Classroom based                   |  |
| Assessor               | Matric               | Number of modules: 1<br><br>Duration per module: 3 days | Objective:<br>Conducting assessment according to the principle of assessment<br><br>Modules:<br>Assessor       | POE                    | NQF 5              |                                   |  |
| Facilitation           | Matric               | Number of modules: 1<br><br>Duration per module: 3 days | Objective:<br>Facilitation of learning according to the methodology<br><br>Modules:<br>Facilitation            | POE                    | NQF 5              |                                   |  |
| Moderation             | Assessor             | Number of modules: 1<br><br>Duration per module: 5 day  | Objective:<br>Conduct moderation for outcome based assessment<br><br>Modules:<br>Moderation                    | POE                    | NQF 6              |                                   |  |

| COURSE NAME                        | ENTRY REQUIREMENTS   | DURATION                                            | COURSE DESCRIPTION                                                                                                              | ASSESSMENT METHOD                  | QUALIFICATION /NQF | CAMPUS LOCATION/ONLINE |
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| Root Cause Analysis Technique/RCAT | Matric               | Number of modules: 1<br>Duration per module: 3 days | Objective:<br>Conducting root cause analysis according to the methodology<br><br>Modules:<br>Root Cause Analysis Technique/RCAT | Theoretical assessment             | N/A                | Classroom based        |
| Advance/ Defensive Driving         | Matric               | Number of modules: 1<br>Duration per module: 3 days | Objective:<br>Drive defensively according to traffic rules<br><br>Modules:<br>Advance/Defensive Driving                         | Theoretical & Practical assessment | N/A                |                        |
| Basic Computer training            | Matric               | Number of modules: 1<br>Duration per module: 5 days | Objective:<br>Investigation of the incident according to legislation<br>Modules:<br>Basic Computer training                     | Theoretical & Practical assessment | NQF 4              |                        |
| Incident Investigation             | Read & Write English | Number of modules: 1<br>Duration per module: 3 days | Objective:<br>Facilitation of learning according to the methodology<br><br>Modules:<br>Incident Investigation                   | Theoretical assessment             | NQF 3              |                        |
| Assessor                           | Matric               | Number of modules: 1<br>Duration per module: 5 day  | Objective:<br>Conducting assessment according to the principle of assessment<br><br>Modules:<br>Assessor                        | POE                                | NQF 5              |                        |

| COURSE NAME  | ENTRY REQUIREMENTS | DURATION                                                | COURSE DESCRIPTION                                                                                  | ASSESSMENT METHOD | QUALIFICATION /NQF | CAMPUS LOCATION/ONLINE |  |
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| Facilitation | Matric             | Number of modules: 1<br><br>Duration per module: 3 days | Objective:<br>Facilitation of learning according to the methodology<br><br>Modules:<br>Facilitation | POE               | NQF 5              | Classroom based        |  |



# FACULTY OF TERMINALS & MARINE



| COURSE NAME                  | ENTRY REQUIREMENTS                                                                                                                                                                         | DURATION                                                                                                                        | COURSE DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ASSESSMENT METHOD                                | QUALIFICATION /NQF | CAMPUS LOCATION/ONLINE |  |
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| Container High Reach Stacker | Certified ID copy not older than 3 months, Driver's licence, Medical Fitness Certificate, Eye test Certificate, Qualification for Novice – Grade 7 and Previous certificate for relicense. | Number of modules: 10<br><br>Duration per module: Depends on the progress of the learners<br><br>Total course duration: 5 weeks | <p>Objective:<br/>This course is designed and developed to provide the necessary knowledge, skills and attitude to aspirant and prospective operators of High Reach Stacker.</p> <p>Modules:<br/>           1. Introduction to terminal operations<br/>           2. Types of cranes &amp; lifting attachments<br/>           3. High reach stacker safety<br/>           4. Parts and functions of a high reach stacker<br/>           5. Daily checks and reports<br/>           6. Principles of operation<br/>           7. Mechanical appreciation<br/>           8. Load capacity<br/>           9. Communication tools<br/>           10. Practical operation</p> <p>Theory: 1 week<br/>           Practical: 3 weeks<br/>           Summative Assessment: 1 week</p> | Formative Assessment<br><br>Summative Assessment | NQF 3              | Campus Location        |  |
| Container Straddle Carrier   | Certified ID copy not older than 3 months, Driver's licence, Medical Fitness Certificate, Eye test Certificate, Qualification for Novice – Grade 7 and Previous certificate for relicense. | Number of modules: 6<br><br>Duration per module: Depends on the progress of the learners                                        | <p>Objective:<br/>The purpose of this course is to train all aspirant Straddle Carrier Crane Operators to be well grounded in crane operating skills as well as to be competent against the requirements of the relevant unit standard.</p> <p>The aim of this course is at the end of the day to have a safe crane operator for the various Transnet Port Container Terminals.</p>                                                                                                                                                                                                                                                                                                                                                                                          | Formative Assessment<br><br>Summative Assessment | NQF 3              | Campus Location        |  |

| COURSE NAME             | ENTRY REQUIREMENTS                                                                                                                                                                         | DURATION                                                                                                                              | COURSE DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ASSESSMENT METHOD                                       | QUALIFICATION /NQF | CAMPUS LOCATION/ONLINE |  |
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|                         |                                                                                                                                                                                            | Total course duration:<br>6 weeks (without simulation)<br>(8 weeks with simulation)                                                   | <p>Modules:</p> <ol style="list-style-type: none"> <li>1. Introduction to terminal operations</li> <li>2. Types of cranes and lifting attachments</li> <li>3. Straddle Carrier safety Rules</li> <li>4. Typical components of a Straddle Carrier</li> <li>5. Operation of a Straddle Carrier</li> <li>6. Daily checks and reports</li> </ol> <p>Theory: 1 week<br/>Practical: 4 weeks<br/>Mentorship: 4 weeks<br/>Summative Assessment: 1 week</p>                                                                                                                                                                                                              |                                                         |                    |                        |  |
| Rail Mount Gantry Crane | Certified ID copy not older than 3 months, Driver's licence, Medical Fitness Certificate, Eye test Certificate, Qualification for Novice – Grade 7 and Previous certificate for relicense. | <p>Number of modules: 7</p> <p>Duration per module: Depends on the progress of the learners</p> <p>Total course duration: 5 weeks</p> | <p>Objective:<br/>This course has been designed and developed to provide the necessary knowledge, skills and attitude to current and prospective operators of Rail Mounted Gantry Crane.</p> <p>Modules:</p> <ol style="list-style-type: none"> <li>1. Introduction to Container and Rail operations</li> <li>2. Types of cranes and lifting attachments</li> <li>3. Safety of the ZPMC RMG</li> <li>4. Components of ZPMC RMG and their functions</li> <li>5. Load capacity</li> <li>6. Principles of operating a ZPMC RMG Crane</li> <li>7. Daily checks and reports</li> </ol> <p>Theory: 1 week<br/>Practical: 3 weeks<br/>Summative Assessment: 1 week</p> | <p>Formative Assessment</p> <p>Summative Assessment</p> | NQF 3              | Campus Location        |  |

| COURSE NAME                              | ENTRY REQUIREMENTS                                                                                                                                                                         | DURATION                                                                                                                                                      | COURSE DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ASSESSMENT METHOD                                | QUALIFICATION /NQF | CAMPUS LOCATION/ONLINE |  |
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| Cantilever Container Cra (Ship To Shore) | Certified ID copy not older than 3 months, Driver's licence, Medical Fitness Certificate, Eye test Certificate, Qualification for Novice – Grade 7 and Previous certificate for relicense. | Number of modules: 7<br><br>Duration per module: Depends on the progress of the learners<br><br>Total course duration: 8 weeks (includes simulation training) | Objective:<br>This course has been designed and developed to provide the necessary knowledge, skills and attitude to current and prospective employees working within the one of the Container Terminals in South Africa, to understand international best practices according to the Assessment criteria stipulated in the Unit Standard for Port Terminals & Marine.<br><br>Modules:<br>1. Introduction to terminal operations<br>2. Types of cranes & lifting attachments<br>3. STS safety rules<br>4. Parts and functions of the STS 5. Load capacity<br>6. Principles of operating Liebherr STS Crane<br>7. Daily checks and reports<br><br>Theory: 1 week<br>Simulation: 2 weeks<br>Practical: 4 weeks<br>Summative Assessment: 1 week | Formative Assessment<br><br>Summative Assessment | NQF 3              | Campus Location        |  |
| Rubber TYR Gantry crane                  | Certified ID copy not older than 3 months, Driver's licence, Medical Fitness Certificate, Eye test Certificate, Qualification for Novice – Grade 7 and                                     | Number of modules: 7<br><br>Duration per module: Depends on the progress of the learners                                                                      | Objective:<br>This course has been designed and developed to provide the necessary knowledge, skills and attitude to current and prospective operators of the Rubber Tyred Gantry Crane.<br><br>Modules:<br>1. Introduction to Container and Rail operations                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Formative Assessment<br><br>Summative Assessment | NQF 3              | Campus Location        |  |

| COURSE NAME                   | ENTRY REQUIREMENTS                                                                                                                                                                         | DURATION                                                                                                                      | COURSE DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ASSESSMENT METHOD                                | QUALIFICATION /NQF | CAMPUS LOCATION/ONLINE |  |
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|                               | Previous certificate for relicense.                                                                                                                                                        | Total course duration: 8 weeks (includes simulation training)                                                                 | 2. Types of cranes and lifting attachments<br>3. RTG Safety rules<br>4. Components of a Kalmar RTG and their functions<br>5. Load capacity<br>6. Principles of operating Kalmar RTG Crane<br>7. Daily checks and reports<br><br>Theory: 1 week<br>Simulation: 2 weeks<br>Practical: 4 weeks<br>Summative Assessment: 1 week                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                  |                    |                        |  |
| Mobile Elevated Work Platform | Certified ID copy not older than 3 months, Driver's licence, Medical Fitness Certificate, Eye test Certificate, Qualification for Novice – Grade 7 and Previous certificate for relicense. | Number of modules: 7<br><br>Duration per module: Depends on the progress of the learners<br><br>Total course duration: 1 week | Objective:<br>This course has been designed and developed to provide the necessary knowledge, skills and attitude to current and prospective employees working in one of the Container Terminals in South Africa. The person accredited with this Unit Standard is able to safely operate and use a mobile elevating work platform.<br><br>The learner will be able to assess his/her work environment so as to establish any work hazard and resultant losses.<br><br>Module:<br>1. Introduction to container operations<br>2. Types of cranes and lifting attachments<br>3. MEWP safety rules<br>4. Components of MEWP 5. Load capacity<br>6. Operation of MEWP<br>7. Daily checks and reports<br><br>Theory: 2 days<br>Practical: 2 days<br>Summative Assessment: 1 day | Formative Assessment<br><br>Summative Assessment | NQF 2              | Campus Location        |  |

| COURSE NAME               | ENTRY REQUIREMENTS                                                                                                                                                                         | DURATION                                                                                                                        | COURSE DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ASSESSMENT METHOD                                | QUALIFICATION /NQF | CAMPUS LOCATION/ONLINE |  |
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| Counterbalance Lift Truck | Certified ID copy not older than 3 months, Driver's licence, Medical Fitness Certificate, Eye test Certificate, Qualification for Novice – Grade 7 and Previous certificate for relicence. | Number of modules: 10<br><br>Duration per module: Depends on the progress of the learners<br><br>Total course duration: 3 weeks | <p>Objective:<br/>The person accredited with this unit standard is able to operate a Contour Balance Lift Truck in a safe manner, they will also be able to conduct pre and post inspections to ensure the performance of the lift truck. The person will be able to handle the loading and storage of freight by using equipment and accessories in the required manner. They will also be able to access emergency systems and services in the event of an incident or accident.</p> <p>Modules:<br/>           1. Types of lift trucks &amp; attachments<br/>           2. Parts &amp; functions of a lift truck<br/>           3. Principles of operation<br/>           4. Safety rules<br/>           5. Daily checks<br/>           6. Refuelling / changing batteries<br/>           7. Mechanical appreciation<br/>           8. Checklists &amp; logbooks<br/>           9. Load recognition<br/>           10.1 Practical driving basic driving narrow aisle driving<br/>           10.2 Pick-up, transport &amp; set down<br/>           10.3 Load mass assessment, stacking etc<br/>           10.4 Unusual driving conditions<br/>           10.5 Test track familiarisation<br/>           10.6 Work site preparation - close</p> <p>Theory: 3 Days<br/>           Practical: 10 Days<br/>           Summative Assessment: 2 days</p> | Formative Assessment<br><br>Summative Assessment | NQF 3              | Campus Location        |  |

| COURSE NAME             | ENTRY REQUIREMENTS                                                                                                                                                                         | DURATION                                                                                                                       | COURSE DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ASSESSMENT METHOD                                | QUALIFICATION /NQF | CAMPUS LOCATION/ONLINE |  |
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| Empty Container Handler | Certified ID copy not older than 3 months, Driver's licence, Medical Fitness Certificate, Eye test Certificate, Qualification for Novice – Grade 7 and Previous certificate for relicense. | Number of modules: 8<br><br>Duration per module: Depends on the progress of the learners<br><br>Total course duration: 5 weeks | Objective:<br>This course has been designed and developed to provide the necessary knowledge, skills and attitude to current and prospective operators of the Empty Container Handler.<br><br>Modules:<br>1. Structure/Stability Types of lift trucks & attachments<br>2. Operating controls and their functions<br>3. Pre –Post drive check<br>4. Mechanical appreciation<br>5. Refuelling<br>6. Practical driving - basic driving<br>7. Safety<br>8. Accidents/incident<br><br>Theory: 1 week<br>Practical: 3 weeks<br>Summative Assessment: 1 week | Formative Assessment<br><br>Summative Assessment | NQF 2              | Campus Location        |  |
| Overhead Gant Crane     | Certified ID copy not older than 3 months, Driver's licence, Medical Fitness Certificate, Eye test Certificate, Qualification for Novice – Grade 7 and Previous certificate for relicense. | Number of modules: 10<br><br>Duration per module: Depends on the progress of the learners<br><br>Total course duration: 1 week | Objective:<br>This course has been designed and developed to provide the necessary knowledge and skills required to operate the Overhead Gantry Crane according to the Unit Standard.<br><br>Modules:<br>1. Types of cranes and lifting attachments<br>2. Parts and functions<br>3. Crane safety<br>4. Daily checks and reports<br>5. Principles of operation<br>6. Mechanical appreciation                                                                                                                                                           | Formative Assessment<br><br>Summative Assessment | NQF 2              | Campus Location        |  |

| COURSE NAME                                           | ENTRY REQUIREMENTS                                                                                                                                                                         | DURATION                                                                                                                        | COURSE DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ASSESSMENT METHOD                                | QUALIFICATION /NQF | CAMPUS LOCATION/ONLINE |  |
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|                                                       |                                                                                                                                                                                            |                                                                                                                                 | 7. Load capacity<br>8. Rigging Principles<br>9. Communication tools<br>10. Operating procedures<br><br>Theory: 2 days<br>Practical: 2 days<br>Summative Assessment: 1 day                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                  |                    |                        |  |
| Operate A Wharf Side Jib Crane (Mobile Harbour Crane) | Certified ID copy not older than 3 months, Driver's licence, Medical Fitness Certificate, Eye test Certificate, Qualification for Novice – Grade 7 and Previous certificate for relicence. | Number of modules: 10<br><br>Duration per module: Depends on the progress of the learners<br><br>Total course duration: 6 weeks | Objective:<br>This course has been designed and developed to provide the necessary knowledge and skills required to operate the Mobile Harbour Crane according to the Unit Standard.<br><br>Module:<br>1. Introduction to container operations<br>2. Types of cranes and lifting attachments<br>3. Mobile Harbour Crane safety<br>4. Parts and functions<br>5. Daily checks and reports<br>6. Principles of operation<br>7. Mechanical appreciation<br>8. Load capacity<br>9. Communication tools<br>10. Practical operation<br><br>Theory: 1 week<br>Practical: 4 weeks<br>Summative Assessment: 1 week | Formative Assessment<br><br>Summative Assessment | NQF 3              | Campus Location        |  |

| COURSE NAME                                                                              | ENTRY REQUIREMENTS                                                                                                                                                                         | DURATION                                                                                                                       | COURSE DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ASSESSMENT METHOD                                | QUALIFICATION /NQF | CAMPUS LOCATION/ONLINE |  |
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| Understand The Basics Of Ship Design And Cargo Operations (Operational Planner Training) | Certified ID copy not older than 3 months, Driver's licence, Medical Fitness Certificate, Eye test Certificate, Qualification for Novice – Grade 7 and Previous certificate for relicense. | Number of modules: 5<br><br>Duration per module: Depends on the progress of the learners<br><br>Total course duration: 8 weeks | Objective:<br>learner credi<br>with this standard will kno<br>and be able to demonstrat<br>comprehension of:<br>- The different ship types<br>- Ship-borne cargo-handlin equipment<br>- Types uses and dimensio of shipping containers Specialized cargo handlin vessels<br>- Terminology of measurement and dimensions of vessels<br>- The stresses, forces and stability issues at play on the ship during cargo work an whilst at sea<br>- The registration & classification vessels<br>- The nature and importanc of ship surveys<br>- The general principles of ship cargo operations<br>- The different types of cargoes carried by ships a the methods of loading, discharging and stowage<br><br>Modules:<br>1. Introduction<br>2. Job steps<br>3. Learning Process<br>4. Discharge and Loading strategies<br>5. Vessel Planners source of information<br><br>Theory: 7 weeks<br>Summative Assessment: 1 week | Formative Assessment<br><br>Summative Assessment | NQF 4              | Campus Location        |  |

| COURSE NAME     | ENTRY REQUIREMENTS                                                                                                                                                                         | DURATION                                                                                                                              | COURSE DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ASSESSMENT METHOD                                       | QUALIFICATION /NQF | CAMPUS LOCATION/ONLINE      |  |
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| Operate Tippler | Certified ID copy not older than 3 months, Driver's licence, Medical Fitness Certificate, Eye test Certificate, Qualification for Novice – Grade 7 and Previous certificate for relicense. | <p>Number of modules: 7</p> <p>Duration per module: Depends on the progress of the learners</p> <p>Total course duration: 5 weeks</p> | <p>Objective:</p> <p>The purpose of this course is to train all aspirant Tippler operators, who are responsible for using tipplers to offload bulkproducts from railtrucks at bulk-product handling plants. It is also aimed at learners who wish to be employed in this capacity, to be well grounded in Tippler operating skills as well as to be competent against the requirements of the relevant standard.</p> <p>The aim of this course is at the end of the day to have a safe Tippler operator for the various Transnet Port Terminals bulk terminals.</p> <p>Modules:</p> <ol style="list-style-type: none"> <li>1. Introduction</li> <li>2. Types of cranes &amp; lifting attachments</li> <li>3. Health and safety</li> <li>4. Daily checks and reports</li> <li>5. Controls and functions</li> <li>6. Operational Testing</li> <li>7. Practical operation</li> </ol> <p>Theory: 1 week<br/> Practical: 3 weeks<br/> Mentorship: 6 – 8 weeks<br/> Summative Assessment: 1 week</p> | <p>Formative Assessment</p> <p>Summative Assessment</p> | N/A                | Port Elizabeth/<br>Saldanha |  |

| COURSE NAME                 | ENTRY REQUIREMENTS                                                                                                                                                                         | DURATION                                                                                                                              | COURSE DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ASSESSMENT METHOD                                       | QUALIFICATION /NQF | CAMPUS LOCATION/ONLINE |  |
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| Operate a Stacker Reclaimer | Certified ID copy not older than 3 months, Driver's licence, Medical Fitness Certificate, Eye test Certificate, Qualification for Novice – Grade 7 and Previous certificate for relicense. | <p>Number of modules: 7</p> <p>Duration per module: Depends on the progress of the learners</p> <p>Total course duration: 3 weeks</p> | <p>Objective:<br/>This course has been designed and developed to provide the necessary knowledge and skills required to operate a stacker Reclaimer. The purpose of a Stacker Reclaimer is to transport material from oner of several locations to an ultimate destination.</p> <p>Modules:<br/>           1. Introduction<br/>           2. Types of cranes &amp; lifting attachments<br/>           3. Health and safety<br/>           4. Daily checks and reports<br/>           5. Controls and functions<br/>           6. Operational Testing<br/>           7. Practical operation</p> <p>Theory: 1 week<br/>           Practical: 1 weeks<br/>           Mentorship: 6 – 8 weeks<br/>           Summative Assessment: 1 week</p> | <p>Formative Assessment</p> <p>Summative Assessment</p> | N/A                | Saldanha               |  |
| Operate Bulk Stacker        | Certified ID copy not older than 3 months, Driver's licence, Medical Fitness Certificate, Eye test Certificate, Qualification for Novice – Grade 7 and Previous certificate for relicense. | <p>Number of modules: 7</p> <p>Duration per module: Depends on the progress of the learners</p> <p>Total course duration: 5 weeks</p> | <p>Objective:<br/>The purpose of this course is to train all aspirant Stacker operators, to be well grounded in Stacker operating skills as well as to be competent against the requirements of the relevant unit standard.</p> <p>The aim of this course is to have a safe Stacker operator for the various Transnet Port Terminals container terminals.</p>                                                                                                                                                                                                                                                                                                                                                                             | <p>Formative Assessment</p> <p>Summative Assessment</p> | N/A                | Port Elizabeth         |  |

| COURSE NAME            | ENTRY REQUIREMENTS                                                                                                                                                                         | DURATION                                                                                                                              | COURSE DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ASSESSMENT METHOD                                       | QUALIFICATION /NQF | CAMPUS LOCATION/ONLINE |  |
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|                        |                                                                                                                                                                                            |                                                                                                                                       | <p>Modules:</p> <ol style="list-style-type: none"> <li>1. Introduction</li> <li>2. Types of cranes &amp; lifting attachments</li> <li>3. Health and safety</li> <li>4. Daily checks and reports</li> <li>5. Controls and functions</li> <li>6. Operational Testing</li> <li>7. Practical operation</li> </ol> <p>Theory: 1 week<br/>           Practical: 3 weeks<br/>           Mentorship: 6 – 8 weeks<br/>           Summative Assessment: 1 week</p>                                                                                                                                                                                                                                                                                                                 |                                                         |                    |                        |  |
| Operate Bulk Reclaimer | Certified ID copy not older than 3 months, Driver's licence, Medical Fitness Certificate, Eye test Certificate, Qualification for Novice – Grade 7 and Previous certificate for relicense. | <p>Number of modules: 7</p> <p>Duration per module: Depends on the progress of the learners</p> <p>Total course duration: 5 weeks</p> | <p>Objective:</p> <p>This course has been designed and developed to provide the necessary knowledge, skills and attitudes to current and prospective operators of a Bulk Reclaimer.</p> <p>The purpose of this course is to train all aspirant Bulk Reclaimer operators, who are responsible for using Bulk Reclaimers to reclaim bulk-products within bulk-product handling plants. It is also aimed at learners who wish to be employed in this capacity, to be well grounded in Bulk Reclaimer operating skills as well as to be competent against the requirements of the relevant unit standard.</p> <p>The aim of this course is at the end of the day to have a safe Bulk Reclaimer operator for the various Transnet Port Terminals bulk handling terminals.</p> | <p>Formative Assessment</p> <p>Summative Assessment</p> | N/A                | Port Elizabeth         |  |

| COURSE NAME                | ENTRY REQUIREMENTS                                                                                                                                                                         | DURATION                                                                                                                              | COURSE DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ASSESSMENT METHOD                                       | QUALIFICATION /NQF | CAMPUS LOCATION/ONLINE |  |
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|                            |                                                                                                                                                                                            |                                                                                                                                       | <p>Modules:</p> <ol style="list-style-type: none"> <li>1. Introduction</li> <li>2. Types of cranes and lifting attachments</li> <li>3. Health and safety</li> <li>4. Daily checks and reports</li> <li>5. Controls and functions</li> <li>6. Operational Testing</li> <li>7. Practical operation</li> </ol> <p>Theory: 1 week<br/>           Practical: 3 weeks<br/>           Mentorship: 6 – 8 weeks<br/>           Summative Assessment: 1 week</p>                                                                                                                                                                                                                                                              |                                                         |                    |                        |  |
| Operate a Bulk Ship Loader | Certified ID copy not older than 3 months, Driver's licence, Medical Fitness Certificate, Eye test Certificate, Qualification for Novice – Grade 7 and Previous certificate for relicense. | <p>Number of modules: 7</p> <p>Duration per module: Depends on the progress of the learners</p> <p>Total course duration: 5 weeks</p> | <p>Objective:</p> <p>The purpose of this course is to train all aspirant Ship Loader operators, who are responsible for using Ship Loaders to load bulk-products. It is also aimed at learners who wish to be employed in this capacity, to be well grounded in Ship Loader operating skills as well as to be competent against the requirements of the relevant unit standard.</p> <p>The aim of this course is to have a safe Ship Loader operator for the various Transnet Port Terminals.</p> <p>Modules:</p> <ol style="list-style-type: none"> <li>1. Introduction &amp; lifting attachments</li> <li>3. Health and safety</li> <li>4. Daily checks and reports</li> <li>5. Controls and functions</li> </ol> | <p>Formative Assessment</p> <p>Summative Assessment</p> | N/A                | Port Elizabeth         |  |

| COURSE NAME                   | ENTRY REQUIREMENTS                                                                                                                                                                         | DURATION                                                                                                                       | COURSE DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ASSESSMENT METHOD                                | QUALIFICATION /NQF | CAMPUS LOCATION/ONLINE |  |
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|                               |                                                                                                                                                                                            |                                                                                                                                | 6. Operational Testing<br>7. Practical operation<br><br>Theory: 1 week<br>Practical: 3 weeks<br>Mentorship: 6 – 8 weeks<br>Summative Assessment: 1 week                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                  |                    |                        |  |
| Operate Truck Loading Station | Certified ID copy not older than 3 months, Driver's licence, Medical Fitness Certificate, Eye test Certificate, Qualification for Novice – Grade 7 and Previous certificate for relicense. | Number of modules: 7<br><br>Duration per module: Depends on the progress of the learners<br><br>Total course duration: 5 weeks | Objective:<br>This course has been designed and developed to provide the necessary knowledge, skills and attributes to current and prospective operators of a Truck Loading Station. The purpose of this course is to train all aspirant Truck Loading Station operators, who are responsible for using Dischargers to unload bulk-product. It is also aimed at learners who wish to be employed in this capacity, to be well grounded in operating skills. The aim of this course is to have a safe Truck Loading Station operator for the various Transnet Port Terminals.<br><br>Module:<br>1. Introduction<br>2. Types of cranes and lifting attachments<br>3. Health and safety<br>4. Daily checks and reports<br>5. Controls and functions<br>6. Operational Testing<br>7. Practical operation<br><br>Theory: 1 week<br>Practical: 3 weeks<br>Mentorship: 6 – 8 weeks<br>Summative Assessment: 1 week | Formative Assessment<br><br>Summative Assessment | NQF 3              | Richards Bay           |  |

| COURSE NAME            | ENTRY REQUIREMENTS                                                                                                                                                                         | DURATION                                                                                                                            | COURSE DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ASSESSMENT METHOD                                       | QUALIFICATION /NQF | CAMPUS LOCATION/ONLINE |  |
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| Operate Conveyor Belts | Certified ID copy not older than 3 months, Driver's licence, Medical Fitness Certificate, Eye test Certificate, Qualification for Novice – Grade 7 and Previous certificate for relicense. | <p>Number of modules:</p> <p>Duration per module: Depends on the progress of the learners</p> <p>Total course duration: 5 weeks</p> | <p>Objective:</p> <p>This course has been designed and developed to provide the necessary knowledge, skills and attributes to current and prospective operators of a Conveyor Belt System.</p> <p>The purpose of this course is to train all aspirant Conveyor Belt System operators, who are responsible for using Dischargers to unload bulk-product. It is also aimed at learners who wish to be employed in this capacity, to be well grounded in operating skills. The aim of this course is to have a safe Conveyor Belt System operator for the various Transnet Port Terminals.</p> <p>Modules:</p> <ol style="list-style-type: none"> <li>1. Introduction</li> <li>2. Types of cranes&amp; lifting attachments</li> <li>3. Health and safety</li> <li>4. Daily checks and reports</li> <li>5. Controls and functions</li> <li>6. Operational Testing</li> <li>7. Practical operation</li> </ol> <p>Theory: 1 week<br/> Practical: 3 weeks<br/> Mentorship: 6 – 8 weeks<br/> Summative Assessment: 1 week</p> | <p>Formative Assessment</p> <p>Summative Assessment</p> | N/A                | Richards Bay           |  |

| COURSE NAME                           | ENTRY REQUIREMENTS                                                                                                                                                                         | DURATION                                                                                                                              | COURSE DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ASSESSMENT METHOD                                       | QUALIFICATION /NQF | CAMPUS LOCATION/ONLINE |  |
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| Operate Bottom Discharger Description | Certified ID copy not older than 3 months, Driver's licence, Medical Fitness Certificate, Eye test Certificate, Qualification for Novice – Grade 7 and Previous certificate for relicense. | <p>Number of modules: 7</p> <p>Duration per module: Depends on the progress of the learners</p> <p>Total course duration: 5 weeks</p> | <p>Objective:</p> <p>This course has been designed and developed to provide the necessary knowledge, skills and attitudes to current and prospective operators of the Bottom Discharger.</p> <p>The purpose of this course is to train all aspirant Bottom Discharger operators, who are responsible for using Dischargers to unload bulk-products. It is also aimed at learners who wish to be employed in this capacity, to be well grounded in operating skills as well as to be competent against the requirements of the relevant unit standard.</p> <p>The aim of this course is to have a safe Bottom Discharger operator for the various Transnet Port Terminals.</p> <p>Modules:</p> <ol style="list-style-type: none"> <li>1. Introduction</li> <li>2. Types of cranes &amp; lifting attachments</li> <li>3. Health and safety</li> <li>4. Daily checks and reports</li> <li>5. Controls and functions</li> <li>6. Operational Testing</li> <li>7. Practical operation</li> </ol> <p>Theory: 1 week<br/> Practical: 3 weeks<br/> Mentorship: 6 – 8 weeks<br/> Summative Assessment: 1 week</p> | <p>Formative Assessment</p> <p>Summative Assessment</p> | N/A                | Richards Bay           |  |

| COURSE NAME         | ENTRY REQUIREMENTS                                                                                                                                                                         | DURATION                                                                                                                              | COURSE DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ASSESSMENT METHOD                                       | QUALIFICATION /NQF | CAMPUS LOCATION/ONLINE |  |
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| Operate Tripper car | Certified ID copy not older than 3 months, Driver's licence, Medical Fitness Certificate, Eye test Certificate, Qualification for Novice – Grade 7 and Previous certificate for relicense. | <p>Number of modules: 7</p> <p>Duration per module: Depends on the progress of the learners</p> <p>Total course duration: 5 weeks</p> | <p>Objective:<br/>The purpose of this course is to train all aspirant Tripper Car operators, who are responsible for using Dischargers to unload bulk-product. It is also aimed at learners who wish to be employed in this capacity, to be well grounded in operating skills, so to have a safe Tripper Car operator for the various Transnet Port Terminals.</p> <p>Modules:<br/>1. Introduction<br/>2. Types of cranes &amp; lifting attachments<br/>3. Health and safety<br/>4. Daily checks and reports<br/>5. Controls and functions<br/>6. Operational Testing<br/>7. Practical operation</p> <p>Theory: 1 week<br/>Practical: 3 weeks<br/>Mentorship: 6 – 8 weeks<br/>Summative Assessment: 1 week</p> | <p>Formative Assessment</p> <p>Summative Assessment</p> | N/A                | Richards Bay           |  |
| Operate Hopper      | Certified ID copy not older than 3 months, Driver's licence, Medical Fitness Certificate, Eye test Certificate, Qualification for Novice – Grade 7 and Previous certificate for relicense. | <p>Number of modules: 7</p> <p>Duration per module: Depends on the progress of the learners</p> <p>Total course duration: 5 weeks</p> | <p>Objective:<br/>Objective: This course has been designed and developed to provide the necessary knowledge, skills and attributes to current and prospective operators of a Hopper. The purpose of this course is to train all aspirant Hopper operators, who are responsible for using Dischargers to unload bulk-product. It is also aimed at learners who wish to be employed in this capacity, to be well grounded in operating skills.</p>                                                                                                                                                                                                                                                               | <p>Formative Assessment</p> <p>Summative Assessment</p> | N/A                | Richards Bay           |  |

| COURSE NAME           | ENTRY REQUIREMENTS                                                                                                                                                                         | DURATION                                                                                                                              | COURSE DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ASSESSMENT METHOD                                       | QUALIFICATION /NQF | CAMPUS LOCATION/ONLINE |  |
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|                       |                                                                                                                                                                                            |                                                                                                                                       | <p>The aim of this course is to have a safe Hopper operator for the various Transnet Port Terminals.</p> <p>Modules:</p> <ol style="list-style-type: none"> <li>1. Introduction</li> <li>2. Types of cranes &amp; lifting attachments</li> <li>3. Health and safety</li> <li>4. Daily checks and reports</li> <li>5. Controls and functions</li> <li>6. Operational Testing</li> <li>7. Practical operation</li> </ol> <p>Theory: 1 week<br/>           Practical: 3 weeks<br/>           Mentorship: 6 – 8 weeks<br/>           Summative Assessment: 1 week</p>                                                                                                                              |                                                         |                    |                        |  |
| Operate Ship Unloader | Certified ID copy not older than 3 months, Driver's licence, Medical Fitness Certificate, Eye test Certificate, Qualification for Novice – Grade 7 and Previous certificate for relicense. | <p>Number of modules: 7</p> <p>Duration per module: Depends on the progress of the learners</p> <p>Total course duration: 5 weeks</p> | <p>Objective:</p> <p>This course has been designed and developed to provide the necessary knowledge, skills and attitudes to current and prospective operators of a Caillard Ship Unloader.</p> <p>The purpose of this course is to train all aspirant Ship Unloader operators, who are responsible for using Ship Unloaders to unload bulk-products. It is also aimed at learners who wish to be employed in this capacity, to be well grounded in Ship Unloader operating skills as well as to be competent against the requirements of the knowledge elements.</p> <p>The aim of this course is to have a safe Caillard Ship Unloader operator for the various Transnet Port Terminals.</p> | <p>Formative Assessment</p> <p>Summative Assessment</p> | N/A                | Campus Location        |  |

| COURSE NAME                                              | ENTRY REQUIREMENTS                                         | DURATION                                                                                                                              | COURSE DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ASSESSMENT METHOD                                       | QUALIFICATION /NQF | CAMPUS LOCATION/ONLINE  |  |
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|                                                          |                                                            |                                                                                                                                       | <p>Modules:</p> <ol style="list-style-type: none"> <li>1. Introduction</li> <li>2. Types of cranes &amp; lifting attachments</li> <li>3. Health and safety</li> <li>4. Daily checks and reports</li> <li>5. Controls and functions</li> <li>6. Operational Testing</li> <li>7. Practical operation</li> </ol> <p>Theory: 1 week<br/>           Practical: 3 weeks<br/>           Mentorship: 6 – 8 weeks<br/>           Summative Assessment: 1 week</p>                                                                       |                                                         |                    |                         |  |
| Cargo Coordinator – Containers / Break Bulk / Automotive | ID, Medical Certificate, Eye test, Qualification – Grade 7 | <p>Number of modules: 4</p> <p>Duration per module: Depends on the progress of the learners</p> <p>Total course duration: 9 weeks</p> | <p>Objective:</p> <p>Cargo Coordinators are responsible for capturing and recording Container information onto the Hand - Held Terminals (HHT) within the following import/export areas:</p> <p>Cosmos/Navis</p> <p>Modules:</p> <ol style="list-style-type: none"> <li>1. International Trade &amp; Terminal handling</li> <li>2. Safety and Legislation</li> <li>3. Operations</li> <li>4. SPARCS RDT Systems</li> </ol> <p>Theory: 3 week<br/>           Practical: 5 weeks<br/>           Summative Assessment: 1 week</p> | <p>Formative Assessment</p> <p>Summative Assessment</p> | N/A                | East and Western Region |  |

| COURSE NAME        | ENTRY REQUIREMENTS                                                                                                                                                                         | DURATION                                                                                                                               | COURSE DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ASSESSMENT METHOD                                       | QUALIFICATION /NQF | CAMPUS LOCATION/ONLINE |  |
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| Driver Articulated | Certified ID copy not older than 3 months, Driver's licence, Medical Fitness Certificate, Eye test Certificate, Qualification for Novice – Grade 7 and Previous certificate for relicense. | <p>Number of modules: 27</p> <p>Duration per module: Depends on the progress of the learners</p> <p>Total course duration: 2 weeks</p> | <p>Objective:<br/>The purpose of this course is to guide the operator step by step to get familiar with the vehicle and to teach him how to operate it efficiently and safely.</p> <p>Modules:</p> <ol style="list-style-type: none"> <li>1. Reporting and recording of incidents.<br/>Force majeure events</li> <li>2. Compliance with laws and policies</li> <li>3. Access to and from the terminal</li> <li>4. Staging area (parking area)</li> <li>5. Compliance with ISPS code</li> <li>6. Security</li> <li>7. Restricted zones</li> <li>8. Road traffic management system</li> <li>9. CRHV (container road haulage vehicle)</li> <li>10. Straddle carrier or rubber tyre gantry / vehicle interchange zone (exchange yard).</li> <li>11. Auto gate process.</li> <li>12. Container terminal orders 'CTO'</li> <li>13. AMV (authorised motor vehicle).</li> <li>15. Work permit / job card / delivery note /collection order / truck card within terminal premises.</li> <li>16. Container prefix, container number and container mass.</li> <li>17. Container seal.</li> <li>18. IMDG (dangerous) substances.</li> <li>19. Reefer containers.</li> <li>20. Damage to containers.</li> <li>21. Personal protective equipment and facilities.</li> <li>22. Interference with, damage to or misuse of items.</li> </ol> | <p>Formative Assessment</p> <p>Summative Assessment</p> | N/A                | Richards Bay           |  |

| COURSE NAME                                            | ENTRY REQUIREMENTS                                                                                                                                                           | DURATION                                                                                                                                                              | COURSE DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ASSESSMENT METHOD                                               | QUALIFICATION /NQF           | CAMPUS LOCATION/ONLINE |  |
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|                                                        |                                                                                                                                                                              |                                                                                                                                                                       | <p>23. Intoxication.<br/> 24. Compliance with instructions.<br/> 25. Disclaimer<br/> 26. Indemnity.<br/> 27. breach</p> <p>Theory: 3 days<br/> Practical: 5 days<br/> Summative Assessment: 2 days</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                 |                              |                        |  |
| Shore Hand<br>(available to<br>TNPA Employees<br>only) | <p>Grade 12 /<br/>ABET Course</p> <p>First Aid<br/>Certificate</p> <p>Fire Fighting<br/>Certificate</p> <p>Valid Medical<br/>Certificate</p> <p>Eye Test<br/>Certificate</p> | <p>Number of<br/>modules: 8</p> <p>Duration<br/>per module:<br/>Depends on<br/>the progress<br/>of the<br/>learners</p> <p>Total course<br/>duration:<br/>9 weeks</p> | <p>Objective:<br/>Understand the theoretical aspects<br/>of the work, demonstrating knowledge<br/>of the Port layout awareness and safety.</p> <p>To supply an effective and efficient<br/>service to client. Good understanding<br/>of Shore Hand duties, demonstrating<br/>safeworking practice and good<br/>knowledge of seamanship.</p> <p>Modules:<br/> 1. Training in port marine/mooring<br/>operations<br/> 2. Wire and rope construction<br/> 3. Splicing, shackles, hooks, leads, bitts<br/>and mooring systems<br/> 4. Working with heaving lines/ropes/<br/>launch transportation and<br/>accommodation ladders<br/> 5. Essential knots and bends<br/> 6. Safe work practice<br/> 7. Safety hazards<br/> 8. General ships knowledge, winches /<br/>capstans and belaying rope to bollard<br/>and bits</p> | <p>Formative<br/>Assessment</p> <p>Summative<br/>Assessment</p> | N/A –<br>Enterprise<br>Based | Bayhead<br>campus      |  |

| COURSE NAME                    | ENTRY REQUIREMENTS                                  | DURATION                                                                                                                                                                                                                                                        | COURSE DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ASSESSMENT METHOD                                | QUALIFICATION /NQF | CAMPUS LOCATION/ONLINE |  |
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|                                |                                                     |                                                                                                                                                                                                                                                                 | Theory: 5 days<br>Practical: 3-4 weeks<br>Summative Assessment: 1 day                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                  |                    |                        |  |
| Accelerated Able Seafarer Deck | Must be 18 years or older<br>Have ancillary courses | Number of modules: 22<br><br>Duration per module: Depends on the progress of the learners<br><br>Total course duration: 2 weeks<br>theoretical course 6 months<br>sea time accelerated training onboard the craft (12 months calendar time for shift employees) | Objective:<br>The purpose of this course is aimed at candidates studying for the Able Seaman qualification. This course includes the safety familiarization required when joining a tug for the first time.<br>We also look at the safety aspects and knowledge pertaining to the safe working on board all harbour craft which are required for the training of ordinary seaman and able seaman. The knowledge acquired from this course, will assist you in achieving the required results, expected of you whilst performing the required tasks on-board the vessel on which you are a trainee.<br><br>Modules:<br>1. Introduction - glossary and terms<br>general ship knowledge/ship board duties<br>2. Towing equipment/operations<br>3. Derricks and cranes<br>4. Watch keeping<br>5. Safe work practice and personal shipboard safety<br>6. Pollution<br><br>Theory: 2 weeks including Assessment<br>Practical: 6 months / 12 months for shift workers | Formative Assessment<br><br>Summative Assessment | SAMSA Accredited   | Bayhead campus         |  |

| COURSE NAME                      | ENTRY REQUIREMENTS                                                  | DURATION                                                                                                                               | COURSE DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ASSESSMENT METHOD                                                                   | QUALIFICATION /NQF | CAMPUS LOCATION/ONLINE |  |
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| Accelerated Able Seafarer Engine | <p>Must be 18 years or older</p> <p>Must have ancillary courses</p> | <p>Number of modules: 42</p> <p>Duration per module: Depends on the progress of the learners</p> <p>Total course duration: 10 days</p> | <p>Objective:<br/>To train seafarers to meet the STCW (Standards of Training, Certification and Watchkeeping for seafarers) mandatory minimum requirements for Able Seafarer Engine as contained in the Regulation II/5 and Section A-II/5 of the STCW Code on completion of this course.</p> <p>Sections:<br/>Introduction<br/>SAMSA Guidelines<br/>1. Shipboard familiarisation<br/>2. Fire fighting<br/>3. Burns<br/>4. Cardiopulmonary resuscitation (CPR)<br/>5. Operation of distress rockets and flares<br/>6. Working on deck<br/>7. Personal protective clothing and equipment<br/>8. Mooring operations<br/>9. Working aloft/safety harness<br/>10. Portable power tools<br/>11. Entering an enclosed space<br/>12. Painting<br/>13. Rigging of pilot ladders<br/>14. Manual lifting and carrying<br/>15. The Compass<br/>16. Helms orders steering and watch keeping<br/>17. Navigational aids<br/>18. Glossary and terms<br/>19. Names and functions of various parts of the ship<br/>20. Lead line<br/>21. Stowage of wires and ropes</p> | <p>Formative Assessment</p> <p>Practical assessment</p> <p>Summative Assessment</p> | SAMSA accredited   | Bayhead Campus         |  |

| COURSE NAME | ENTRY REQUIREMENTS | DURATION | COURSE DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ASSESSMENT METHOD | QUALIFICATION /NQF | CAMPUS LOCATION/ONLINE |  |
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|             |                    |          | 22. Flags and flag etiquette<br>23. Wire and rope construction<br>24. Shackles<br>25. Breaking out of new coils of rope and wire<br>26. Knots, bends and hitches<br>27. Splicing<br>28. Bosun chair and stages<br>29. Life jackets<br>30. Man overboard procedure<br>31. Lifesaving and Fire Fighting appliances<br>32. Life rafts<br>33. Weather tight and watertight door/ "Permit to work" system<br>34. methods of helicopter rescue<br>35. portable radio<br>36. belaying rope to bollard and bits<br>37 Bilge systems<br>38 Mooring and anchoring operations<br>39. Towing equipment/operations<br>40. Derricks and cranes<br>41. Safe work practice and personal shipboard safety<br>42. Pollution<br><br>Theory: 10 days<br>Practical: 6 months / 12 months for shift workers |                   |                    |                        |  |

| COURSE NAME                                                 | ENTRY REQUIREMENTS                                                                                 | DURATION                                                                                                                                                                                                                     | COURSE DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ASSESSMENT METHOD                                                                               | QUALIFICATION /NQF  | CAMPUS LOCATION/ONLINE |  |
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| Berthing Master<br>(available to<br>TNPA Employees<br>only) | Able Seafarer<br>or GPR<br>(General<br>Purpose<br>Rating)<br>Qualification<br><br>Driver's license | Number of<br>modules: 12<br><br>Duration<br>per module:<br>Depends<br>on the<br>progress<br>of the<br>learners<br><br>Total course<br>duration:<br>5 days<br>theory and<br>1-3 months<br>understudy<br>period<br>(Practical) | <p>Objective:<br/>The purpose of this course is to qualify candidates in the capacity of a berthing master, within the port operations.</p> <p>OBJECTIVES:<br/>Understanding the theoretical aspect of work.<br/>Demonstrating good knowledge of Port layout.<br/>Work out state of tide from observation.<br/>To supply an effective and efficient service to clients.<br/>Good understanding of the Berthing Masterduties.<br/>Demonstrate safe working practice.<br/>Demonstrate a good knowledge of seamanship.</p> <p>Sections:<br/>Introduction<br/>1. In the office<br/>2. Enroute<br/>3. Basic parts of a ship and terminology<br/>4. At the berth<br/>5. Double banking<br/>6. Docking<br/>7. Gangways<br/>8. Sailing<br/>9. Hold off re-docks / shiftings<br/>10. Warping of vessels<br/>11. Vessels doing engine trials<br/>12. Administration</p> <p>Theory: 5 days<br/>Practical: 1 / 3 months for shift workers<br/>Qualifying candidates will be in charge of a vessel under 25 tons within Port Operations Limits.</p> | <p>Formative<br/>Assessment</p> <p>Practical<br/>assessment</p> <p>Summative<br/>Assessment</p> | SAMSA<br>accredited | Bayhead<br>Campus      |  |

| COURSE NAME | ENTRY REQUIREMENTS                                          | DURATION                                                                                                                                                                                                                                      | COURSE DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ASSESSMENT METHOD                                                                   | QUALIFICATION /NQF | CAMPUS LOCATION/ONLINE |  |
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| Coxswain    | Able Seafarer or GPR (General Purpose Rating) Qualification | <p>Number of modules: 14</p> <p>Duration per module: Depends on the progress of the learners</p> <p>Total course duration: 10 days theory</p> <p>1 year sea time (Practical understudy onboard the craft)</p> <p>SAMSA Level 3 assessment</p> | <p>Objective:</p> <p>Safely navigate the vessel within Port limits.</p> <p>Applying and enforcing all safe working procedures onboard the vessel.</p> <p>Capable of making the right decisions and carry out the correct procedures in case of an emergency.</p> <p>Understanding the theoretical aspect of the work.</p> <p>Demonstrating a good knowledge of the Port Lay-out, Lights, signals, depths and port regulations.</p> <p>Demonstrate good boat handling skills.</p> <p>Modules:</p> <ol style="list-style-type: none"> <li>1. Terms and definitions</li> <li>2. Safety and emergency procedures</li> <li>3. International code of signals</li> <li>4. Basic navigation</li> <li>5. Basic ship's construction and stability</li> <li>6. Harbour regulations, Emergency equipment, south african maritime safety authority safety equipment carried by class vi general purpose launch</li> <li>7. Port layout and light characteristics</li> <li>8. Rule of the road</li> <li>9. Buoyage system</li> <li>10. Basic meteorology</li> <li>11. Tides</li> <li>12. Boat handling, towing and towing bridles, anchoring, damage report Safe working load, knots</li> <li>13. Engineering, propulsion and steering systems</li> <li>14. Maintenance</li> </ol> | <p>Formative Assessment</p> <p>Practical assessment</p> <p>Summative Assessment</p> | SAMSA accredited   | Bayhead Campus         |  |

| COURSE NAME             | ENTRY REQUIREMENTS                                                                                                                                                                                                                                                                                                                                                                                                | DURATION                                                                                                                              | COURSE DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ASSESSMENT METHOD                                                                   | QUALIFICATION /NQF | CAMPUS LOCATION/ONLINE |  |
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|                         |                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                       | <p>Theory: 10 days<br/>Practical: 6 months / 12 months for shift workers</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                     |                    |                        |  |
| Skipper Port Operations | <p>1.<br/>Must be 18 years or older</p> <p>2.<br/>Grade 12 with Mathematics and Physical Science for employees employed after 2017 (for internal employees employed before 2017 where matric was not a prerequisite on recruitment a preassessment will be done and thereafter an RPL process will be undertaken).</p> <p>3.<br/>Ordinary/able seafarer engine, Ordinary/Able Seafarer Deck/Marine shore hand</p> | <p>Number of modules: 5</p> <p>Duration per module: Depends on the progress of the learners</p> <p>Total course duration: 5 weeks</p> | <p>Objective:<br/>This course has been designed and developed to provide the necessary knowledge, skills and attitudes to current and prospective operators of tugs and small harbour crafts engaged in port operations.</p> <p>The purpose of this course is to train all aspirant Skippers &lt;200GT port operators, to be well grounded in harbour craft operating skills as well as to be competent against the requirements of the relevant standards as per SAMSA requirements.</p> <p>The aim of this course is at the end of the day to have a safe harbour craft operator for the various TNPA ports.</p> <p>Modules:<br/>1 Chart work<br/>2 Obtaining a Position Line<br/>3 Fixing a ship's positions<br/>4. Compass work<br/>5. Diviation and variation</p> <p>Theory: 10 days<br/>Practical: On the job practical and SAMSA Orals</p> | <p>Formative assessment</p> <p>Practical assessment</p> <p>Summative assessment</p> | SAMSA Accredited   | Bayhead campus         |  |

| COURSE NAME                             | ENTRY REQUIREMENTS                                                                                 | DURATION                                                                                                                           | COURSE DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ASSESSMENT METHOD | QUALIFICATION /NQF | CAMPUS LOCATION/ONLINE |  |
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|                                         | External learners<br>1.Pre-entry test<br>2. Minimum 12 months industry related experience          |                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                   |                    |                        |  |
| Continued Proficiency for Marine Pilots | Pilot License                                                                                      | Number of modules:<br>9 Case studies and Simulation<br><br>Total course duration:<br>3 days                                        | Objective:<br>Address primary factors that cause marine accidents.<br>Improve Pilots knowledge and skills thus ensuring Pilots stay current and efficient.                                                                                                                                                                                                                                                                                                                                                                   | N/A               | N/A                | Bayhead campus         |  |
| Master Port Operations                  | Skipper Port Operations or STCW Deck Officer Certificate or Naval Bridge Watch Keeping Certificate | Number of modules:<br><br>Duration per module:<br>Depends on the progress of the learners<br><br>Total course duration:<br>3 weeks | Objective:<br>This course has been designed and developed to provide the necessary knowledge, skills and attitudes to current and prospective operators of tugs and small harbour crafts engaged in port operations.<br><br>The purpose of this course is to train all aspirant Master <1600GT Port operations and Skippers and Master <200GT port operators, to be well grounded in harbour craft operating skills as well as to be competent against the requirements of the relevant standards as per SAMSA requirements. | N/A               | N/A                | Bayhead campus         |  |

| COURSE NAME                                                           | ENTRY REQUIREMENTS                                                                                                                                                                                                      | DURATION                                                                                                                             | COURSE DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ASSESSMENT METHOD                                                                   | QUALIFICATION /NQF | CAMPUS LOCATION/ONLINE |  |
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|                                                                       |                                                                                                                                                                                                                         |                                                                                                                                      | <p>The aim of this course is at the end of the day to have a safe harbour craft operator for the various TNPA ports.</p> <p>Modules:</p> <ol style="list-style-type: none"> <li>1. Chart work</li> <li>2. Obtaining a Position Line</li> <li>3. Fixing a ship's positions</li> <li>4. Compass work</li> <li>5. Diviation and variation</li> </ol> <p>Theory: 3 weeks<br/>Practical: On the job practical and SAMSA Orals</p>                                                                                                                                                                                                                                                                                                    |                                                                                     |                    |                        |  |
| Dredging Pipe Operator Training<br>(Available to TNPA Employees only) | <ol style="list-style-type: none"> <li>1. Must be 18 years or older</li> <li>2. Grade 12 with Mathematics and Physical Science</li> <li>3. Prior experience in Dredging Operations (Min.6 months experience)</li> </ol> | <p>Number of modules: 6 and Simulation</p> <p>Duration per module: Vary per module/ phase</p> <p>Total course duration: 9 Months</p> | <p>Objective:<br/>Dredging is the underwater removal of soils and subsequent transportation to another place for deepening and beneficial use of the soil.<br/>This course has been designed and developed to provide the necessary knowledge, skills and attitudes to current and prospective operators of dredging equipment.</p> <p>Theory: 73 days</p> <p>Dredging, All, Introduction in Dredging</p> <ol style="list-style-type: none"> <li>1. Trailing suction hopper dredger – All Main components, All Dredging, Components, Dredge Pump</li> <li>2. Soil - Soil theoretical, Soil practical</li> <li>3. Dredging process - Drag head, Settlement, Discharge Dumping, Discharge Rainbow, Discharge Pipe line</li> </ol> | <p>Formative assessment</p> <p>Practical assessment</p> <p>Summative assessment</p> | SAMSA accredited   | Bayhead campus         |  |

| COURSE NAME               | ENTRY REQUIREMENTS                                                                                                                                                                                                                 | DURATION                                                                                                                            | COURSE DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ASSESSMENT METHOD                                                                   | QUALIFICATION /NQF | CAMPUS LOCATION/ONLINE |  |
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|                           |                                                                                                                                                                                                                                    |                                                                                                                                     | <p>4. Automation – SCADA, Sensors, RAC, DTPS</p> <p>5. Hydraulic Transport - Basic concepts<br/>Pipe line, Suction, Limitations</p> <p>6. Other - Maintenance, Technological issues, Wear, Functions on board, Project issues, Production Monitoring</p> <p>Simulation: 23 days<br/>Practical: On the job practical experience 15 days<br/>Internship: 40 days</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                     |                    |                        |  |
| Vessel Traffic Controller | <p>Must be 18 years or older</p> <p>1. Skipper Port Operations</p> <p>2. Minimum of two months in the VTS centre if minimum marine qualification has not obtained.</p> <p>3. Matric/Grade 12 with core Mathematics and Science</p> | <p>Number of modules:</p> <p>Duration per module: Depends on the progress of the learners</p> <p>Total course duration: 4 weeks</p> | <p>Objective:<br/>The purpose of Vessel Traffic services training can be better understood from the functions it plays in managing ship traffic. The key importance of VTS is for managing vessel traffic. This further helps ensuring safety of ships, along with helping attain maximum traffic flow from any given route.</p> <p>Maximum economic returns possible from a marine route can be realized only with help of these traffic services that keep important marine information available for all mariners at all times. It assists in keeping a tab on movement of unauthorized cargo movements, making waters safer and more controlled. However, one of the most important roles of these services is to act as a vessel finder.</p> <p>The information gathered, stored and replayed by various sensors help in</p> | <p>Formative assessment</p> <p>Practical assessment</p> <p>Summative assessment</p> | SAMSA accredited   | Cape Town Campus       |  |

| COURSE NAME                | ENTRY REQUIREMENTS | DURATION                                                                                                                              | COURSE DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ASSESSMENT METHOD                                       | QUALIFICATION /NQF        | CAMPUS LOCATION/ONLINE |  |
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|                            |                    |                                                                                                                                       | <p>keeping a tab on movements of vessels at all time. This crucial marine information is available at all times and can be used to find a vessel if it goes missing.</p> <p>Modules:</p> <ol style="list-style-type: none"> <li>1. General Communication</li> <li>2. Review of Plotting techniques and procedures</li> <li>3. Radar Observer</li> <li>4. Port Rules</li> <li>5. Corlegs</li> <li>6. AILA Maritime Buoyage System and other AtoNs</li> <li>7. Tidal Theory</li> <li>8. Response to Emergency situations</li> <li>9. Regulation</li> </ol> <p>Theory: 3 weeks<br/>Simulation: 1 week</p> |                                                         |                           |                        |  |
| Marine Resource Management | None               | <p>Number of modules: 14</p> <p>Duration per module: Depends on the progress of the learners</p> <p>Total course duration: 4 days</p> | <p>Objective:</p> <p>The course is designed to minimize the risk of incidents by encouraging safe and responsible behavior. It aims to foster positive attitudes favoring good communication, teamwork, excellence in leadership skills and compliance with standard operating procedures. The objective is to ensure that sound resource management practices underpin everyday operations.</p> <p>Modules:</p> <ol style="list-style-type: none"> <li>1. Situation awareness</li> <li>2. Attitudes and management skills</li> </ol>                                                                  | <p>Formative assessment</p> <p>Summative assessment</p> | Accredited by All Academy | Bayhead                |  |

| COURSE NAME          | ENTRY REQUIREMENTS | DURATION                                                                                                                                                 | COURSE DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ASSESSMENT METHOD                                                            | QUALIFICATION /NQF | CAMPUS LOCATION/ONLINE |  |
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|                      |                    |                                                                                                                                                          | 3. Cultural awareness<br>4. Communication and briefings<br>5. Challenge and response<br>6. Authority and assertiveness<br>7. Management styles<br>8. Workload<br>9. State of the ship<br>10. Human involvement in error<br>11. Judgement and decision making<br>12. Leadership emergencies<br>13. Crisis and crowd management<br>14. Automation awareness<br><br>Theory: 4 days                                                                                                                                                                                                                   |                                                                              |                    |                        |  |
| Steering and Lookout | None               | Number of modules:<br>24 covered in theory and 13 covered in Ship Handling Simulator<br><br>Duration per module:<br><br>Total course duration:<br>5 days | Objective:<br>A helmsman is required to steer the ship on a steady course, properly execute all rudder orders and communicate utilizing navigational terms relating to heading and steering.<br><br>A lookout is required to keep a visual watch in all states of visibility and have the competency to report in nautical terms all other vessel traffic and dangers to the deck office.<br><br>Module:<br>The Helmsman<br>1. Duties<br>2. Taking over the wheel,<br>3. Steering skills,<br>4. Steering under Pilotage,<br>5. Chasing the Lubbers line<br>6. Rudder Commands<br>7. Helm Commands | Formative assessment<br><br>Practical assessment<br><br>Summative assessment | SAMSA accredited   | Bayhead                |  |

| COURSE NAME              | ENTRY REQUIREMENTS                                                                                       | DURATION                                                                                                  | COURSE DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ASSESSMENT METHOD                                       | QUALIFICATION /NQF | CAMPUS LOCATION/ONLINE |  |
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|                          |                                                                                                          |                                                                                                           | <p>8. Duties of the Standby Helmsman<br/>The Lookout</p> <p>9. Duties</p> <p>10. Regulations pertaining to lookouts</p> <p>11. Fog lookouts</p> <p>12. Use of Binoculars</p> <p>13. Visual search procedures</p> <p>14. Surface searching</p> <p>15. Dark adaption</p> <p>16. Night lookout techniques</p> <p>17. Contact reporting</p> <p>18. Bearings (True/Relative)</p> <p>19. Range estimation</p> <p>20. Speed estimation</p> <p>21. Basic navigation lights</p> <p>22. Man overboard procedures</p> <p>23. Distress signals Restricted visibility steaming</p> <p>24. Sound signals and reporting<br/>Ship recognition</p> <p>Theory: 1 day<br/>Practical: Simulation 4 days,<br/>minimum 10 hours</p> |                                                         |                    |                        |  |
| Pilot Training Programme | <p>1. Deck Officer's Certificate of Competence,</p> <p>2. equivalent Naval Watch Keeping Certificate</p> | <p>Number of modules: 19 subjects with different modules</p> <p>Duration per module: Phase1: 14 weeks</p> | <p>Objective:<br/>The Marine Pilot training programme is aimed at ensuring that the level of pilotage service offered by Transnet National Ports Authority (TNPA) is of a level, comparative to the highest worldwide standards and to provide marine pilots with theoretical and practical knowledge to carry out their duties safely and efficiently.</p> <p>Phase 1: 13 weeks</p>                                                                                                                                                                                                                                                                                                                          | <p>Formative assessment</p> <p>Summative assessment</p> | SAMSA accredited   | Bayhead                |  |

| COURSE NAME | ENTRY REQUIREMENTS                                                                                                                                                                                                                                               | DURATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | COURSE DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ASSESSMENT METHOD | QUALIFICATION /NQF | CAMPUS LOCATION/ONLINE |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|--------------------|------------------------|
|             | <p>3. Minimum 3 years' experience as a qualified Tug master</p> <p>4. Entry recruitment interview</p> <p>5. Psychometric test</p> <p>6. Bio Kinetics assessment</p> <p>7. Safety behavioural Risk assessment (SBRA)</p> <p>8. Passed physical annual medical</p> | <p>Phase2: 8 weeks</p> <p>Phase3: 32 weeks</p> <p>Ship Handling Theory (36 hours)</p> <p>Collision Regulations (14 hours)</p> <p>Tidal theory (14 hours)</p> <p>Communications (38.5 hours)</p> <p>IALA Buoyage System (7 hours)</p> <p>Electronic Navigation Systems (7 hours)</p> <p>Radar Navigator (30 hours)</p> <p>Cargo Handling and Stability (7 hours)</p> <p>Port Familiarization (3.5 hours)</p> <p>Coastal Familiarization (7 hours)</p> <p>Vessel Traffic Services Familiarization (43.5 hours)</p> <p>Helicopter Underwater Escape Training (6 hours)</p> <p>Total course duration: 52 weeks</p> | <p>Theory, Simulator Training and Practical training</p> <p>- Ship handling on-board training vessel (83.5 hours)</p> <p>- Understudy in ports</p> <p>Phase 2: 13 Weeks Theory Training</p> <p>Phase 3: 26 weeks on the job practical understudy in the ports</p> <p>8. Duties of the Standby Helmsman The Lookout</p> <p>9. Duties</p> <p>10. Regulations pertaining to lookouts</p> <p>11. Fog lookouts</p> <p>12. Use of Binoculars</p> <p>13. Visual search procedures</p> <p>14. Surface searching</p> <p>15. Dark adaption</p> <p>16. Night lookout techniques</p> <p>17. Contact reporting</p> <p>18. Bearings (True/Relative)</p> <p>19. Range estimation</p> <p>20. Speed estimation</p> <p>21. Basic navigation lights</p> <p>22. Man overboard procedures</p> <p>23. Distress signals Restricted visibility steaming</p> <p>24. Sound signals and reporting Ship recognition</p> <p>Theory: 1 day</p> <p>Practical: Simulation 4 days, minimum 10 hours</p> |                   |                    |                        |

| COURSE NAME                                                        | ENTRY REQUIREMENTS                                                                                                                                                                                                                                                                          | DURATION                                                                                      | COURSE DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ASSESSMENT METHOD                                                               | QUALIFICATION /NQF        | CAMPUS LOCATION/ONLINE |  |
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| Tugmaster Training Programme<br>(available to TNPA employees only) | 1.<br>A STCW 95 Deck officer qualification<br><br>2.<br>Naval Watch Keeping Certificate equivalent to above.<br><br>3.<br>A SAMSA issued Skipper Port operations certificate together with the Theoretical Master Port Operations certificate issued by the Faculty of Terminals and Marine | Number of modules: 7<br><br>Duration per module: Varies<br><br>Total course duration: 6 weeks | Objective:<br>- Ensuring a high and consistent level of competency nationally of Tug Masters once they have qualified.<br>- Supplying a constant stream of qualified Tug Masters to ensure the demands of the business are met.<br><br>Overall training objectives<br>After the completion of this course the trainee:<br>- Has basic knowledge of ship handling theory<br>- Has thorough knowledge about tug handling theory<br>- Can apply the international regulations for preventing collisions at sea<br>- Can apply the basic skills necessary to safely sail a tug in the port area of the designated port like:<br>- correct and safe navigation in any visibility<br>- adequate tug handling (un)mooring, assistance to vessels engaged in (un)docking operations<br>- correct communication<br>- correct speed and track control<br>- Has thorough knowledge about the port lay out<br>- Has general knowledge about the SA coastal lay out<br>- Has general knowledge about VTS, environment issues, search & rescue<br>- Has insight in the relevant SA legislation<br>- Is familiar with the pilotage aspects related to tug services.<br>- Has insight in subjects related to the tug master role as manager like: | Formative assessments<br><br>Summative assessments<br><br>Practical assessments | Enterprise industry based | Bayhead Campus         |  |

| COURSE NAME | ENTRY REQUIREMENTS | DURATION | COURSE DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ASSESSMENT METHOD | QUALIFICATION /NQF | CAMPUS LOCATION/ONLINE |  |
|-------------|--------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|--------------------|------------------------|--|
|             |                    |          | <p>I. HR management &amp; employee relations<br/> II. Technical management<br/> III. ISO systems<br/> IV. Risk management<br/> V. Relevant administrative aspects<br/> VI. Safety, Health + Environment</p> <p>Subjects:</p> <p>1. Ship and Tug handling<br/> 2. SA Coastal Familiarization<br/> 3. Legislation<br/> 4. Naval architecture (Module 8)<br/> Optional<br/> 5. Ship masters business (Optional)<br/> 6. Port Layout<br/> 7. Assignments – VTS, Tug boat, Pilot boat, Launch, Engine room, Work boat<br/> 8. SMCP – Standard Marine Communication phrases</p> <p>Theory: 6 weeks<br/> Practical: 46 weeks:</p> |                   |                    |                        |  |

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**TRANSNET**



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