



Electrical Networks Roles

Lineworker 1
Lineworker 2
Substation Electrician
SCADA Technician
Excavation Applicant (NAE)
Overhead Safety Observer
Electrical/Substation O&M
Substation Tester
Permit to Work Recipient

Medical Assessment Requirements

Category 1 Health Assessment	M	M	M	M						M	M		
Category 3 Health Assessment										M	M		

Frequency

Qualifications

Certificate III in Electrotechnology Electrician				M (1)								M (1)	
Certificate III ES1 - Power Systems - Rail Traction		M (1)											
Certificate III in ES1 - Rail Traction - Powerline		M (1)											
Certificate III in ES1 - Power Systems - Distribution Overhead		M (1)											
Certificate IV in ES1 - Power Systems, Substations				M (1)	M (1)							M (1)	
Certificate IV in Industrial Electronics and Control					M (1)								
Advanced Diploma of ES1 - Power Systems						M (1)							
Advanced Diploma of Industrial Data Communication, Networking and IT							M (1)						

Frequency

Licences / Registration

5 Year	ESV Line Worker License	M											
3 Year	ESV Spotters Registration								M				
5 Year	Electricians License			M	M							M	
5 Year	License to perform dogging									M (1)			
5 Year	License to perform rigging									M (1)			

Additional Training Requirements

1 Year	Provide Cardiopulmonary Resuscitation	M	M	M	M				M			M	M
1 Year	Perform Rescue from a Live LV panel	M	M	M	M							M	
1 Year	Provide First Aid in ES1 Environment	M	M	M	M				M			M	
3 Year	Provide First Aid	M	M	M	M				M			M	
1 Year	Perform EWP Controlled Descent Escape	M (4)	M (4)										
1 Year	Perform EWP Rescue	M (4)	M (4)										
1 Year	Perform Pole Top Rescue	M (4)	M (4)										
3 Year	MTM Overhead Safety Observer Training								M				
3 Year	MTM Permit to Work Course												M
2 Year	Certificate of Currency - Track Force Protection Coordinator - Level 3.2												M (1)
2 Year	Certificate of Currency - Track Force Protection Coordinator - Level 3.3												M (1)
3 Year	Workplace Spotting for Service Assets								M				
	MTM Notification and Approval for Excavation (NAE) Applicant								M				
	License/Certificate to maintain/service manufacturers equipment											M (3)	

National / Network Job Roles that must be added to a RIW Cardholders Profile

EWPs >11m (National)	M (4)	M (4)											
MTM Authorised Person - Substation Entry (EE) (5)			B										M
MTM Authorised Electrical Tester (ET) (5)													M
MTM - Track Force Protection Coordinator - Level 3.2													M (2)
MTM - Track Force Protection Coordinator - Level 3.3													M (2)
Around The Track Person National (Construction and Maintenance) - National	M	M	M	M					M	M	M	M	M
MTM - Operator	M	M	M	M					M	M	M	M	M

Legend
- If the RIW Cardholder is required to enter a substation
M - Mandatory

- Notes
1. Either qualification.
 2. A valid TYPFC 3.2 or TYPFC 3.3 role must be valid on a RIW Cardholder's profile when performing PTW Recipient tasks.
 3. Licence/Certificate required as evidence to maintain/service relevant manufacturers equipment.
 4. Only mandatory if you are utilising an EWP >11m. These competencies are not linked to the Lineworker 1 job role as these competencies are managed through network based competencies.
 5. Whilst other HV Authorisations exist, Substation Entry is the only HV Authorisation a Third Party is permitted to hold on their RIW profile. Other HV Authorisations in the RIW System will only be valid if the RIW Cardholder is an MTM Employee.
 6. RIW Cardholders wishing to apply for Access Authorities must also hold MTM - Operator and Around The Track Person (Construction & Maintenance) - National.
 7. MTM Apprentice Lineworkers will be required to hold the Traction Overhead Lineworker - National (In-training) job role.

Refer to Page 2 for Authorisation Job Role Requirements

MTM - There are to be used as a guide only. If you are unsure which role applied to you, please seek clarification from the operator with whom you propose to work as to what role is required for your intended duties. It is the individual's responsibility to ensure that the appropriate role is held before work is carried out.

Job Role	Definition
Lineworker 1	A Lineworker 1 is an Electrical lineworker who's work carries out the following works on the traction supply network: the installation, maintenance, modification, strutting, tensioning, terminating, securing, connection and disconnection of overhead electrical conductors, catenary wires and conductor support wires; and the installation, maintenance, modification, securing, connection and disconnection of associated electrical traction equipment.
Lineworker 2	A Lineworker 2 or overhead trade assistants have been working in the railway operations for many years under the supervision of fully qualified traction lineworker. The work undertaken by Lineworker 2's includes some tasks that now require a lineworker licence, however they do not generally hold the qualifications and experience required to obtain a Lineworker License.
Substation Electrician	A Substation Electrician will undertake corrective, preventative maintenance and renewals activities of electrical network assets, in accordance with relevant standards when working on the traction substations and substation network infrastructure.
SCADA Technician	To assist the Senior Control and Indication Officer in the maintenance (routine and reactive), renewals and additions required on the Train Supervisory Control and Data Acquisition (SCADA) System to meet the requirements of the Electrical Network Asset Management Plan.
Excavation Applicant (NAE)	All persons submitting Notification for Excavation Applications are required to have completed the MTM NAE Application Training course. The MTM NAE training course is available in an online format.
Overhead Safety Observer	An Overhead Safety Observer performs Overhead Safety Observing within the MTM rail network. The position also exists to undertake the duty of observing and warning against unsafe approach to electrical HV aerial apparatus.
Electrical/Substation O&M	Individuals who provide support generally to complete fault finding/maintain equipment as the Original Equipment Manufacturer.
Substation Tester	A Substation tester is responsible for routine maintenance, fault investigations, commissioning and acceptance testing of all equipment associated with traction substations, tie-stations, industrial substations and signal power systems.
Permit to Work Recipient	For Metro Trains Melbourne employees, Alliance Partners, and Contractors who are required to work under the Permit to Work Near (PTWN) Conditions as set out by the MTM procedures. The PTWN course is available in a face-to-face format through Thomson Bridge.