



National Track and Civil Matrix

Construct and Maintain Track

	Around The Track Personnel (Non-Construction/Maintenance - Other) - National	Around The Track Personnel (Construction/Maintenance) - National	Ballast Unloader/Maintainer - National	Install and Maintain Guard Rail - National	Points and Crossings Examiner - National	Rail adjuster - National	Rail Grinder - Rail only - National	Rail Grinder - Switches and Crossings - National	Rail Joint Maintainer - National	Rail Labourer - National	Rail Lubricator - National	Rail welder (Aluminothermic) - National	Rail welder (Electric) - National	Rail welder (Flashbutt Welding) - National	Track Certifier - National	Track Constructor - National	Track Examiner - National	Track Maintainer - National	Turnout Constructor - Concrete - National	Turnout Constructor - Timber - National	Ultrasonic Tester Track - National	Ultrasonic Tester Turnouts - National	Vegetation Controller - National
Rail Safety Worker (Y/N)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Medical Requirements																							
Railway Medical Category 3 (Cat 3) Non Safety Critical (on commencement of duty; >40 = every 5 years)	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Competency Requirements (non rail specific)																							
Work Safely in the construction industry (White Card)		M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Transport and store chemicals																							M
Prepare and apply chemicals for hand held application equipment																							M
TLI Certificate II - Rail Infrastructure																							
Safely access the rail corridor (National unit of competency) or equivalent <i>Rail Operators have specific access requirements, therefore if you have obtained this unit of competence from a training provider not endorsed by the rail operator you may require further training.</i>	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Maintain and use hand tools			M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Shift materials safely using manual handling methods			M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Participate in basic workplace communications			M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Follow occupational health and safety procedures			M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Apply fatigue management strategies			M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Apply track fundamentals			M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Apply environmental procedures to rail infrastructure			M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Operate minor mechanical equipment				M	M	M	M	M						M	M	M	M	M	M			M	
Install and maintain guard rails				M																			
Maintain rail joints					M			M						M	M	M	M	M	M	M			
Carry out track ballasting			M		M	M								M	M	M	M	M	M				
Install railway sleepers					M	M								M	M	M	M	M	M				
Carry out rail installation					M	M						M		M	M	M	M	M	M				
Install and repair rail fastening systems					M	M		M			M			M	M	M	M	M	M				
TLI Certificate III - Rail Infrastructure																							
Check and repair track geometry														M	M				M	M			
Check and repair points and crossings					M														M	M			
Examine track infrastructure														M		M							



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Visually inspect track infrastructure															M		M							
Adjust rail						M																		
Install and maintain surface track drainage																			M	M				
Implement ballast unloading			M													M			M	M				
Implement track maintenance and construction																M			M	M				
Install turnouts																			M	M				
Construct concrete-steel points and crossings																			M					
Construct timber-composite points and crossings																				M				
Grind rails							M																	
Grind switches and crossings								M																
Heat and cut materials using oxy-LPG equipment for the rail industry												M	M											
Weld rail using aluminothermic welding process												M												
Apply electric welding process to rail													M											
Weld rail using flashbutt welding process														M										
Test rail using ultrasonic equipment																					M	M		
Test rail using non-destructive testing equipment																						M		
TLI Other																								
Install and service rail lubrication equipment											M													
Clean equipment and restore worksite											M													

Notes:

M = Mandatory

The information contained in this matrix is a guide and for reference only, it is not an exclusive list. This could be subject to change from the Rail Transport Operators.

National Track and Civil Matrix

Role examples (A-Z)



NOTE: These 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.

Role	Examples
Around The Track Personnel (Construction/Maintenance) - National	This role is used when undertaking rail safety work within a rail construction zone in the rail corridor. This role is used for the following types of workers in the rail corridor: Graffiti Removal, General Civil Labouring / Maintenance activities outside the Danger Zone (equivalent to the general civil construction labourer), Apprentices/Trainees, Engineers/Project Managers etc required to access the rail corridor (they must also hold their Engineering/Project Managers RIW role), Surveyors, Tractor Operators, Truck Drivers and Water Cart Operators.
Around The Track Personnel (Non-Construction/Maintenance - Other) - National	This role is used when undertaking rail safety work not considered to be part of a rail construction zone in the rail corridor. -Auditors (inc Safety), Cleaners, Customer Service Agents (inc Platform Coordinators); Environmental Officers, ie. Arborist or Ecologist, Photographers, Operational roles such as Drivers, Network Operations Supervisors; Planners; Property type roles (selected); Safety Officers or Security Guards.
Ballast Unloader/Maintainer - National	Requires the skills and knowledge to carry out ballast unloading.
Install and Maintain Guard Rail - National	Can install and maintain guard rails in accordance with safeworking and regulatory requirements. Includes guard rails installed on: - level crossings and sharp curves to prevent derailment - under bridges and near vulnerable structures to limit lateral movement of derailed wagons.
Points and Crossings Examiner - National	Can check and repair points and crossings in accordance with rail industry standards, safeworking and regulatory requirements, including determining job requirements, maintaining components and tolerances, installing components, conducting post-installation checks and completing required documentation.
Rail adjuster - National	Adjust rail in accordance with safeworking and regulatory requirements and workplace procedures. It includes identifying and determining the requirements for rail adjustment, undertaking rail adjustment, and completing all required documentation.
Rail Grinder - Rail only - National	Is a person who grinds rail welds and faults. It includes determining job requirements, grinding weld and/or weld repair, grinding rail to repair surface defects, and completing all required documentation.
Rail Grinder - Switches and Crossings - National	Is a person who grinds switches and crossings to repair welds and repairing of surface profile of switches and crossings in service.
Rail Joint Maintainer - National	Can maintain rail joints in accordance with rail industry standards, safeworking and regulatory requirements, including identifying and determining parameters or components that require repair, cutting and boring rail, maintaining rail joints and completing required documentation.
Rail Labourer - National	This is a generic labouring role for those working in the Danger Zone on or about the track, ie. Rail Clipping, Rail Laying, Re-Sleepering. Individuals holding this role would normally work under the supervision of specific Track Worker roles, like Track Maintainers.
Rail Lubricator - National	Requires the skills and knowledge to install and service rail lubrication equipment, install lubrication equipment, servicing and monitoring, removing lubrication equipment, and completing all required documentation
Rail welder (Aluminothermic) - National	This role encompasses the aluminothermic welding processes, the national competencies required for this role are accepted by rail transport operators. Currency requirements must be held to work on identified rail networks. This category also includes heat & cut materials using oxy-LPG equipment. Examples of Aluminothermic welding: - Thermit (SKVF, SMWF, Head repair) - RailTech (PL & AP, PLK, PLKJ)
Rail welder (Electric) - National	This role encompasses the electric welding processes, the national competencies required for this role are accepted by rail transport operators. Currency requirements must be held to work on identified rail networks. This category also includes heat & cut materials using oxy-LPG equipment. Examples of electric welding: - Stick / Arc - Mig
Rail welder (Flashbutt Welding) - National	This role encompasses the flashbutt welding processes, the national competencies required for this role are accepted by rail transport operators. Currency requirements must be held to work on identified rail networks.
Track Certifier - National	The Track Construction Certifier must be able to identify and measure both scope of work and quality of track construction work. Requires the knowledge and skill to identify the relevant construction specification and determine whether the track meets that specification and standard. It includes knowledge of the Inspection and Test Plan processes and to understand when hold points and witness points are required. In addition the certifier needs to know the maintenance standards for the track so that any outstanding work can be defined with the appropriate train operating restriction until all remedial work is completed.
Track Constructor - National	Requires the skills and knowledge to implement construction activities including planning work, implementing construction, dealing with maintenance and construction problems.
Track Examiner - National	Examine track and right of way infrastructure including preparing for examination, examining track and right of way, analysing examination results, and reporting findings.
Track Maintainer - National	Implement track maintenance, conduct mandatory systematic inspection, examination, condition monitoring and functional checks on the rail infrastructure and take appropriate action to ensure rail infrastructure is in a safe operational condition, including recording and reporting of defective infrastructure to maintain a valid defect recording system.
Turnout Constructor - Concrete - National	Requires the skills and knowledge to implement turnout construction activities including planning work, implementing construction, dealing with maintenance and construction problems.
Turnout Constructor - Timber - National	Requires the skills and knowledge to implement turnout construction activities including planning work, implementing construction, dealing with maintenance and construction problems.
Ultrasonic Tester Track - National	Involves test plain rail and field welds using ultrasonic equipment. It includes determining test requirements, conducting testing using hand directed equipment, conducting visual examination and measurement of welds, identifying and classifying defects, and completing all required documentation.
Ultrasonic Tester Turnouts - National	Includes above role requirements as well as: test switches, crossings and other special components in turnouts using ultrasonic and other non-destructive testing equipment. It includes determining test requirements, conducting ultrasonic testing using hand directed equipment, and conducting non-destructive testing.
Vegetation Controller - National	Can prepare chemicals and equipment and apply chemicals for the control of identified pests or weeds using hand held application equipment to control vegetation.

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Currency Requirements



NOTE: These are to be used as a guide only. If you are unsure which currency period applies to you, please seek clarification from the operator with whom you propose to work. It is the individual's responsibility to ensure that the appropriate currency is held before work is carried out.

Roles with currency requirements	Comments
Rail Grinder	ARTC - 2 years (Grind Rail)
Rail Welder (and other roles that include the following units)	
Heat and cut materials using oxy-LPG equipment for the rail industry	ARTC/Queensland Rail/V/Line - 2 years
Weld rail using aluminothermic welding process	ARTC/Queensland Rail/V/Line - 2 years TfNSW - 1 year
Carry-out electric welding process to rail	ARTC/Queensland Rail/V/Line - 2 years TfNSW - 1 year
Weld rail using flashbutt welding process carry-out electric welding process to rail	ARTC/Queensland Rail/V/Line - 2 years
Track Certifier and Track Examiner (and other roles that include the following units)	
Check and repair track geometry	ARTC/TfNSW - 2 years
Examine track infrastructure	ARTC/TfNSW - 2 years
Visually inspect track infrastructure	ARTC/TfNSW - 2 years
Adjust rail	ARTC/TfNSW - 2 years
Patrol track	TfNSW – 2 years
Maintain and certify track	TfNSW – 2 years
Maintain and certify turnouts	TfNSW – 2 years
Examine structures	TfNSW – 2 years
Structures assessment	TfNSW – 2 years
Vegetation Controller	
Vegetation Controller - National	Metro/V/Line - 5 years
Ultrasonic Tester Turnouts	TfNSW - 1 year