National Track and Civil Matrix

Construct and Maintain Track

		Around The Track Personnel (Non-Construction/Maintenance -Other)	Around The Track Personnel (Construction/Maintenance)	Rail Labourer	Ballast Unloader/Maintainer - National	Rail Lubricator	Install and Maiontain Guard Rail	Vegetation Controller	Rail Joint Maintainer	Track Maintainer	Track Certifier	Points and Crossings Examiner	Track Examiner	Track Constructor	Turnout Constructor - Concrete	Turnout Constructor - Timber	Rail welder (Flashbutt Welding)	Rail welder (Aluminothermic)	Rail welder (Electric)	Rail Grinder - Rail only	Rail Grinder - Switches and Crossings	Rail adjuster	Ultrasonic Tester Track	Ultrasonic Tester Turnouts
	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																							
NTC	**Railway Medical Category 1 (Cat 1) Safety Critical** (>60 = yearly; 50 - 60 = every 2 years; <50 = every 5 years)																							
NTC	**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
Nat Comp Codes	**Competency Requirements (non rail specific)**																							
CPCCOHS1001	Prepare to 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
	Licence or machine specific unit of competence (specify type) If HIGH RISK, licence is required even if unit is obtained - refer to following page																#							
	Please ensure you have the appropriate unit of competency for your role: Level 3: AHCCHM303A Prepare and Apply Chemicals Level 3: AHCCHM304A Transport, Handle and Store Chemicals Please ensure you also comply with the local government licencing requirments in your state http://www.chemcert.org.au/State_legislation.html							M																
Nat Comp Codes	**TLI Certificate II - Rail Infrastructure**																							
TLIF2080	Safely access the rail corridor 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.	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
TLIB1028	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
TLID1001	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
TLIE1003	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
TLIF1001	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
TLIF2010	Apply fatigue management strategies			M	M	M	M		M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
TLIB2085	Apply track fundamentals				M	M	M		M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
TLIU2008	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
TLIB2092	Operate minor mechanical equipment						M		M	M	M	M	M	M	M	M				M	M	M		M
TLIB2097	Install and maintain guard rails						M																	
TLIB2121	Maintain rail joints								M	M	M	M	M	M	M	M								
TLIS2030	Carry out track ballasting				M					M	M	M	M	M	M	M						M		
TLIS2031	Install railway sleepers									M	M	M	M	M	M	M						M		
TLIS2044	Carry out rail installation									M	M	M	M	M	M	M		M				M		
TLIS2034	Install and repair rail fastening systems								M	M	M	M	M	M	M	M		M				M		
Nat Comp Codes	**TLI Certificate III - Rail Infrastructure**																							
TLIB3094	Check and repair track geometry										M			M	M	M								
TLIB3095	Check and repair points and crossings											M			M	M								
TLIB3099	Examine track infrastructure										M		M											
TLIB3100	Visually inspect track infrastructure										M		M											
TLIB3102	Adjust rail																					M		
TLIC2058	Travel medium or heavy self-propelled on-track equipment NOTE: If travelling outside the possession area, you may need additional competencies - please check with operator.																							
	Propel and operate light on-track equipment NOTE: If travelling outside the possession area, you may need additional competencies - please check with operator.																							
TLIC3045	Operate road/rail vehicle																							
TLIS2027	Install and maintain surface track drainage														M	M								
TLIS3025	Implement ballast unloading				M									M	M	M								
TLIS3026	Implement track maintenance and construction													M	M	M								
TLIS3045	Install turnouts														M	M								
TLIS3040	Construct concrete-steel points and crossings														M									
TLIS3041	Construct timber-composite points and crossings															M								
TLIS3037	Install and repair rail earthworks																							
TLIB2091	Measure and record Track Geometry										O													
TLIW2012	Grind rails																			M				
TLIW3013	Grind switches and crossings																				M			
TLIW3035	Heat and cut materials using oxy-LPG equipment for the rail industry																	M	M					
TLIW3015	Weld rail using aluminothermic welding process																	M						
TLIW0036	Apply electric welding process to rail																		M					
TLIW3016	Weld rail using flashbutt welding process																M							
TLIS3010	Test rail using ultrasonic equipment																						M	M
TLIS3011	Test rail using non-destructive testing equipment																							M

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Nat Comp Codes	TLI Other	Around The Track Personnel (Non-Construction/Maintenance - Other)	Around The Track Personnel (Construction/Maintenance)	Rail Labourer	Ballast Unloader/Maintainer - National	Rail Lubricator	Install and Maiontain Guard Rail	Vegetation Controller	Rail Joint Maintainer	Track Maintainer	Track Certifier	Points and Crossings Examiner	Track Examiner	Track Constructor	Turnout Constructor - Concrete	Turnout Constructor - Timber	Rail welder (Flashbutt Welding)	Rail welder (Aluminothermic)	Rail welder (Electric)	Rail Grinder - Rail only	Rail Grinder - Switches and Crossings	Rail adjuster	Ultrasonic Tester Track	Ultrasonic Tester Turnouts
RIICCM208A or D	Carry out basic levelling																							
TLIS2012	Install and service rail lubrication equipment					M																		
TLIB1093	Clean equipment and restore worksite					M																		
TLIC2054	Access rail track to run track vehicle within defined worksite																							
Nat Comp Codes	**Plant operator competencies - can hold any one or more**																							
TLIW2028	Identify the principles of ballast cleaning operations																							
TLIW2029	Identify the principles of ballast regulator operations																							
TLIW2030	Identify the principles of dynamic track stabiliser operations																							
TLIW2031	Identify the principles of self-propelled rail grinder operations																							
TLIW2032	Identify the principles of tamping machine operations																							
	Competency requirements (conditional by operator)																							
	Level 3: AHCCHM304A Transport, Handle and Store Chemicals							C																

Notes:

M* = Must hold the Please ensure you also comply with the local government licencing requirments in your state http://www.chemcert.org.au/State_legislation.html

* = Must hold Workcover / Worksafe High Risk License for Task.

(1) = Must hold the appropriate trade or licence for tasks being conducted.

(2) = Must hold one of the UOC depending on machine size i.e. over/under 10T.

\# = Conditional operator requirement.

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

Role	Examples
Non-rail worker (Not MTM)	If the work is to be conducted in the 'Danger Zone' or if it is classified as 'Rail Safety Work' then either the 'Around the Track Personnel (Construction/Maintenance)' or 'Around the Track Personnel (Non-Construction/Maintenance - Other)' roles are to be selected along with the relevant other national role/s. This role is used when non rail safety work is being performed either in the rail corridor under the direction of a responsible person or outside of the rail corridor. For example Green field construction sites in the rail industry.
Around The Track Personnel (Construction/Maintenance)	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)	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	Requires the skills and knowledge to carry out ballast unloading.
Earthworker	Supervise the installation and repair rail of earthworks in accordance with safeworking, regulatory and organisational requirements. It includes determining job requirements, undertaking trenching, establishing track formation and minor trackside earthworks, and completing documentation in accordance with specifications.
Operator Role - ARTC, DPTI, CRN, MTM, PTA, TfNSW, QR, V/Line	A Rail Operator is the owner of the operational aspects of the relevant rail network, they hold the rail accreditation which includes ensuring all rail safety aspects are met. The Operator Role is specific the Rail Operators requirements, this role is to be selected for the specific rail operator the person is working for. It is to be selected along with the relevant national role aligned to the work the person is undertaking. For example MTM Operator is selected with the Rail Labourer National role if this is the work being undertaken by the person.
Rail adjuster	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 Bound Plant Operator	Track maintenance machines or items of plant which under normal conditions cannot be removed from the track
Rail Grinder - Rail only	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	Is a person who grinds switches and crossings to repair welds and repairing of surface profile of switches and crossings in service.
Rail Labourer	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	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 (Aluinothermic)	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, PLKCJ)
Rail welder (Electric)	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)	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.
Road-Rail Plant Operator	A rolling stock vehicle which can operate under its own power, both on and off rail, and which can transition from one mode of operation to the other. Road rail vehicles may or may not have the ability to travel on a public highway, and may or may not be road registered.
Track Certifier	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	Requires the skills and knowledge to implement construction activities including planning work, implementing construction, dealing with maintenance and construction problems.
Track Examiner	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	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	Requires the skills and knowledge to implement turnout construction activities including planning work, implementing construction, dealing with maintenance and construction problems.
Turnout Constructor - Timber	Requires the skills and knowledge to implement turnout construction activities including planning work, implementing construction, dealing with maintenance and construction problems.
Ultrasonic Tester Track	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	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	Controlling vegetation through the application of herbicides or other means.

National Track and Civil Matrix

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 Bound Plant Operator	TfNSW - 2 years (TLIC2058A)
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	Metro/V/Line - 5 years
Ultrasonic Tester Turnouts	TfNSW - 1 year