Nation	INDUSTRY WORKER®  al Plant Matrix  Rail Safety Worker (Y/N)  Medical Requirements	A Articulated Haul Truck - National	Backhoe Operator - N	Bobcat / Skid Steer - National	Mobile Plant Operator - Concreting - Nat Dogman - National	A Dozer - National	Drilling Rig Operator - Air - Na	Drilling Drilling	Drilling Rig Operator - Rotary Mud	Drilling Rig Operator - Cable Tool -	Drillin Dump	Dump Truck -	Operators 11M - Nation	Elevated Work Platform Operator>11M - National     Elevated Work Platform Operator>11M - National	Excavator Operator - National	Forklift Operator - National	Front Ender Loader Opera	A Grader Operator - National A Operator Crane/Hiab<10T - National	Operator Crane/Hiab>10T - Nation	Operator Gant	Operator Non-Slewing Mobil	A Operator Non-Slewing Mobile Crane(>100T) - National	Operator Non-Slewing Mobile Crane up to 100T	Operator Non-Slewing Mobile Crane up to 20T -	A Operator Non-Slewing Mobile Crane up to 60T - National  Loan Daril Bound Diant Operator Mational	Rail Bound Plant Operator Light - N	A Rail Bound Plant Operator Medium/Heavy - National	Road-Rail Plant Operator	Roller Operator - National	Telehandler Non-Slewing crane above 3T - National     Telehandler Slewing crane above 3T - National	Telehandler under 3T - National	A Tip Truck - National
NTC	Railway Medical Category 1 (Cat 1) Safety Critical																															
NTC	( >60 = yearly; 50 - 60 = every 2 years; <50 = every 5 years)  Railway Medical Category 3 (Cat 3) Non Safety Critical	++	$\perp$	_	_	+	+	_		$\perp$	+	++	+	+	+		$\perp$	_	+	-			_	+	_ N	1 M	М	М			+	
NTC	(on commencement of duty; >40 = every 5 years)	м	м м	и м	м	м	м	и и	м	м	ı   м	M N	и	м	м	м	л м	м	м	м	м	м	M N	и Iv	.				м	м м	м	м
Nat Comp Codes	Competency Requirements (non rail specific)																															
CPCCWHS1001	Prepare to work Safely in the construction industry (White Card)	M	М	M	и м	1 M	М	ММ	I М	M I	м м	М	M N	и м	М	М	M I	u N	1 M	М	M	М	М	М	M N	1 M	М	М	М	м м	М	М
	Licence or machine specific unit of competence (specify type)  If HIGH RISK, licence is required even if unit is obtained - refer to following page				М	,								и и		м			и	м	<sub>M</sub>	м	м	м	м					м м	м	
Nat Comp Codes	TLI Certificate II - Rail Infrastructure					-																										
TUE2080	Safely access the rail corridor											м			М										м	1 м		М		м м		D4
TLIF2080	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.		W	M   N	VI   IVI	'   M	M	M M	M	M	M   M	M	M   N	и   м	M	М	М	и и	1   M	М	M	М	М	М	M   N	1 M	М	IVI	W	M   M	M	IVI
TLIB1028	Maintain and use hand tools		$\top$			+		$\top$		$\top$	+		м						+	+			_			1 м	М				+	
TLID1001	Shift materials safely using manual handling methods												М												N	1 M	М					
TLIE1003	Participate in basic workplace communication	$\perp$				$\perp$							М							1	$\sqcup$		_		N N		M				$\perp \! \! \perp \! \! \perp$	
TLIF1001 TLIF2010	Follow work health and safety procedures  Apply fatigue management strategies	+	+	_	_	+		_		+	+	_	M M						_		$\vdash$		-		N N	_					+	_
TLIB2085	Apply track fundamentals	+	$\dashv$	_	_	+		+		+	+		M	_					+		$\vdash$										+	
TLIU2008	Apply environmental procedures to rail infrastructure												М												N	1 M	М					
Nat Comp Codes	TLI Certificate III - Rail Infrastructure																														4	
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.																								M	2)	M(2)					.
12102030	Propel and operate light on-track equipment		$\top$			+		$\top$		$\top$	+						_		+	+			_		- I'''	-,	(2)				+	
TLIC2059	NOTE: If travelling outside the possession area, you may need additional competencies - please check with operator.		$\perp$							$\perp$															M	2) M(2)						
TLIC3045	Operate road/rail vehicle	$\perp$	_			$\perp$				_		$\perp$								1			_					М			$\perp \! \! \perp \! \! \perp$	_
TLIS2027 TLIS3037	Install and maintain surface track drainage Install and repair rail earthworks	+	+			+		_		+	+	-	M M						_				-			+					+	_
Nat Comp Codes	TLI Other												141																			
RIICCM208D	Carry out basic levelling												М																			
TLIC2054	Access rail track to run track vehicle within defined worksite																								N	1 M	М	М				
Nat Comp Codes TLIW2028	Plant operator competencies - can hold any one or more  Identify the principles of ballast cleaning operations																								M	* M*	N/I*				4	
TLIW2029	Identify the principles of ballast regulator operations		$\dashv$			+				+	+									+			_		М						+-	
TLIW2030	Identify the principles of dynamic track stabiliser operations	$\Box$																							М	* M*	М*					
TLIW2031	Identify the principles of self-propelled rail grinder operations		$\perp$			$\perp$		$\perp$		$\perp$		$\perp$													M		M*				oxdot	
TLIW2032	Identify the principles of tamping machine operations  Statement of Attainment																								M	* M*	M*					
	Operator Crane.Statement of Attainment.Conduct telescopic materials handler operations																														М	
	Operator Dozer.Statement of Attainment.Dozer Operations	<u> </u>			_ _	М														1												$\exists$
	Operator Crane.Statement of Attainment.Vehicle mounted loading crane < 10T																	N	1												oxdot	
	Operator Elevated Work Platform.Statement of Attainment.Operate elevated work platform  Operator Front End Loader.Statement of Attainment.Civil Construction front end loader Ops	+	+	_	+	+	_	_		-+	+	++	- N	VI	+	-	м	-	+	+	+		-	_	_	+	-				+	-
	Operator Front End Education attenues of Attainment. Conduct articulated haul truck operations	0	+	+	+	+	+	+		+	+	+	+	+	+	<del>                                     </del>		+	+	+	+			_	+	+					+	$\dashv$
	Operator Front End Loader & Backhoe.Statement of Attainment.Conduct backhoe/loader operations		М																													$\Box$
	Operator Grader. Statement of Attainment. Conduct Puller Operations	1		_		+				_	_			$\perp$	$\perp$			и	$\perp$	-	$\sqcup$		_			_					+	
<u> </u>	Operator Roller.Statement of Attainment.Conduct Roller Operations  Operator Truck.Statement of Attainment.Conduct Tip Truck Operations	++	+	+	+	++	+	+	+	+	10	0	+	+	+	$\vdash$	+	+	+	+-	$\vdash$	$\vdash$	+	+	+	+	-		М	_	+	0
RIINHB304D	Rail.Statement of Attainment.Conduct air drilling	+	$\dashv$	+	+	+	м	+		+	+	+ + +		+			+	+	+				_		_						+-	$\dashv$
RIIBHD305D	Rail.Statement of Attainment.Conduct Down-hole Hammer drilling						м				丄								丄							上						
RIINHB315D	Rail.Statement of Attainment.Conduct Top-hole Hammer drilling	$\perp \Box$				$\perp$	М					$\perp T$																			$\perp \Box$	
RIINHB305E	Rail.Statement of Attainment.Conduct Continuous flight auger drilling	++	$\perp$			+	_	M	+	+	+	++		+			+		+	-			_			+	-				+	$\blacksquare$
RIINHB306E RIINHB307D	Rail.Statement of Attainment.Conduct large diameter auger drilling  Rail.Statement of Attainment.Conduct conventional core drilling	++	+	+	+	+		M M	1	+	+	+	_	+	+	-	+	+	+	+	+	$\vdash$	+	+	+	+	-		-+	_	+	$\dashv$
RIINHB308D	Rail.Statement of Attainment.Conduct conventional core drilling	+	$\dashv$	+		+	+	M	_	$\dashv$	+	+	+	+	+		+	+	+	1	$\Box$	$\vdash$	+	+	+	+		$\vdash$			+-	$\dashv$
RIINHB311D	Rail.Statement of Attainment.Conduct mud rotary drilling								М		丄																					
							$\pm$	M	_				$\perp$																		$\perp$	$\pm$



#### **National Plant Matrix**

	WORKER® onal Plant Matrix	Articulated Haul Truck - National	erator - N	/ Skid Stee	Mobile Plant Operator - Concreting - National	Jogman - National Jozer - National	orilling Rig Operator - Air - National	orilling Rig Operator - Auger - National	Core - National	orilling Rig Operator - Rotary Mud - National Orilling Rig Operator - Cable Tool - National	rectional	Jump Truck - NSW Only	earthworker - National	Operator<	levated Work Platform Operator>11M - Nation	:xcavator Operator - National	ft Operator - National	ront Ender Loader Operator - National Brader Operator - National		×10T -	Operator Gantry Crane - CB - National	Dperator Non-Slewing Mobile Crane(>3T) - Nati	Slewing Mobile Crane(>1001	Slewing Mobile Crane up to	Jperator Non-Slewing Mobile Crane up to 2U - Dperator Non-Slewing Mobile Crane up to 60T -	kail Bound Plant Operator - National	kail Bound Plant Operator Light - National	ound Plant Ope	koad-Rail Plant Operator koller Operator - National	I -	ndler Slewing crane above 3T - Natio	Telehandler under 3T - National Tip Truck - National	
RIINHB313D	Rail.Statement of Attainment.Conduct Cable Tool drilling	+			-   -	<del>-  </del>	+	اٿا		М	1 -		,   "				<del>"   '</del>	+	+ -	$\vdash$			$\dashv$	7	7	+	-			+-	+-+		1
RIINHB310D	Rail.Statement of Attainment.Conduct surface directional drilling	$\top$			$\top$	$\top$	0		0		м		1 1																	1			1
RIINHB323D	Rail.Statement of Attainment.Conduct horizontal directional drilling	$\top$									м		$\top$											$\neg$	$\top$				$\neg$	$\top$	T		1
	Licence																																
	C Class Drivers Licence	М										М																					]
	Boom Concrete Placing.High Risk Licence.Concrete placing booms (PB)			N	И																												
	Dogger.Licence.Perform Dogging				N	VI																											
	Operator Crane Bridge & Gantry.High Risk Licence.Operate Bridge and Gantry Cranes (CB)																				М							$\perp \perp$					
	Operator Crane.Licence.Operate a non-slewing mobile crane >3T	$\perp$			$\perp$	$\perp$																М				$\perp$		<u></u>		$\perp$	$\perp$		╛
	Operator Crane.Licence.Operate a slewing mobile crane < 100T					$\perp$																		М									╛
	Operator Crane.Licence.Operate a slewing mobile crane < 20T				$\perp$	$\perp$																		N	И						$\perp$		
	Operator Crane.Licence.Operate a slewing mobile crane < 60T	$\perp \!\!\! \perp$				$\perp$					$\perp$		$\perp$												М	<b>↓</b>	$oxed{oxed}$	$\longrightarrow$			$\perp \perp \perp$		
	Operator Crane.Licence.Operate a non-slewing mobile crane >3T	$\bot$				$\perp$					$\perp$		$\perp$										$\rightarrow$			<b>↓</b>	$oxed{oxed}$	$\longrightarrow$		М			
	Operator Crane.Licence.Slewing mobile cranes	$\bot$		$\perp$				Ш			$\perp$		$\perp$										$\rightarrow$		$\bot$	$\perp$	oxdot	$\longrightarrow$		$\bot$	М		╛
	Operator Crane.Licence.Slewing mobile crane greater 100T	$\perp$				$\perp$					$\perp$		$\perp$										М		$\perp$		oxdot	$\leftarrow$		$\bot$	$\perp \perp \perp$		╛
	Operator Crane.Licence.Operate a vehicle loading crane > 10T	$\bot$		$\perp$		$\perp$					$\perp$		$\perp$							M			$\rightarrow$		$\bot$	$\perp$	$oxed{oxed}$	$\longrightarrow$			$\bot$		╛
	Operator Elevated Work Platform.High Risk Licence.Boom-type elevating work platform (WP)	$\perp$									$\perp$		$\perp$	_	М								$\rightarrow$		$\bot$	↓	oxdot	$\leftarrow$		$\bot$	$\perp \perp \perp$		╛
	Operator Elevated Work Platform.Qualified.Operate boom EWP (required for boom length >11m)	$\perp \!\!\! \perp$				$\perp$					$\perp$		$\perp$		0								$\rightarrow$			<b>↓</b>	$oxed{oxed}$	$\longrightarrow$			$\bot$		_
	Operator Excavator.Licence.Civil Construction Excavator	$\bot$			$\perp$	$\perp$					$\perp$		$\perp$			м							$\rightarrow$		$\bot$	<del></del>	oxdot	$\longrightarrow$	$\bot$		$\bot$		╛
	Operator Forklift.High Risk Licence.Licence to operate a forklift (LF)	$\bot$			$\perp$	$\perp$		Ш			$\perp$		$\perp$				М						$\longrightarrow$		$\bot$	$\perp$	oxdot	$\longrightarrow$	$\rightarrow$	Щ	$\bot\bot$	$\bot$	┛
	Operator Truck.Licence.Dump Truck Operations	$\bot$			$\perp$	$\perp$		$\sqcup$			$\perp$	0 1	1										$\longrightarrow$		$\bot$	<b>↓</b>	$\perp$	$\longrightarrow$	$\rightarrow$	Щ	$\bot$		╛
	Operator Truck.Licence.Tip Truck Operations	$\bot$			$\perp$	$\perp$					$\perp$		$\perp$										$\perp$	$\perp$	$\perp$		oxdot	$\longrightarrow$	$\perp$	$\bot$	$\perp \perp \perp$	M	┨
	Operator.Qualified.Directional Drilling	$\perp \!\!\! \perp$			$\perp$	$\perp$					M		$\bot$					$\perp$					$\longrightarrow$		$\rightarrow$	<b>↓</b>	oxdot	$\longrightarrow$	$\rightarrow$	Щ	$\bot$	$\bot$	┛
	Operator.Qualified.Driller's Licence – Class 1, 2 or 3 (only required for waterwell drilling)																									$\perp$							

M\* = Must hold the machine specific competency or licence relevant to operations and/or state based requirement.

- = 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 for reference only and could be subject to change from the Rail Transport Operators.

National Plant Matrix effective September 2018 Page 2 of 4

ator Non-Slewing Mobile Crane up to 60T - National

ator Non-Slewing Mobile Crane up to 100T - Nation ator Non-Slewing Mobile Crane(>100T) - National

ated Work Platform Operator>11M - National

# **National Plant Matrix**

#### Licencing Details

**High Risk Licences** 



High Risk Roles	NON High Risk roles
National - Dogman	National - Bobcat/Skid Steer
National - Elevated Work Platform Operator>11M	National - Dozer
National - Forklift Operator	Drilling Rig Operator - Air - National
National - Mobile Plant Operator (concreting) (note: class code PB Concrete-placing Boom Operation)	Drilling Rig Operator - Auger - National
National - Operator Crane/Hiab>10T	Drilling Rig Operator - Core - National
National - Operator Non-slewing mobile cranes (>3T)	Drilling Rig Operator - Rotary Mud - National
National - Operator Slewing Mobile Crane >100T	Drilling Rig Operator - Cable Tool - National
National - Operator Slewing Mobile Crane up to 100T	Drilling Rig Operator - Directional Drilling - National
National - Operator Slewing Mobile Crane up to 20T	National - Dump Truck
National - Operator Slewing Mobile Crane up to 60T	Dump Truck - NSW Only
National - Rigger	National - Elevated Work Platform Operator<11M
National - Scaffolder	National - Excavator Operator
National - Telehandler Non-slewing >3T	National - Front End Loader Operator
National - Telehandler Slewing >3T	National - Grader Operator
National - Backhoe Operator	National - Operator Crane/Hiab<10T
	National - Roller Operator
	National - Telehandler <3T
	National - Tip Truck

Erect and dismantle restricted height scaffolding
Licence to erect, alter and dismantle scaffolding - advanced level.
Licence to erect, alter and dismantle scaffolding - intermediate level.
Licence to erect, alter and dismantle scaffolding- basic level
Licence to operate a non-slewing mobile crane (greater than 3 tonnes)
Licence to operate a slewing mobile crane (over 100 tonnes)
Licence to operate a slewing mobile crane (up to 100 tonnes)
Licence to operate a slewing mobile crane (up to 20 tonnes)
Licence to operate a slewing mobile crane (up to 60 tonnes)
Licence to operate a vehicle loading crane (capacity 10 meter tonnes and above)
Licence to perform dogging (DG)
Licence to perform rigging advanced level (RA)
Licence to perform rigging basic level (RB)
Licence to perform rigging intermediate level (RI)

## **National Plant 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
Civil Mobile Plant Operator	Mobile plant operators drive and operate heavy machinery used to level, excavate, load and move earth, rock and other material.
Rail Bound Plant Operator	Track maintenance machines or items of plant which under normal conditions cannot be removed from the track
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.
Drilling Rig Operators - AIR	utilise rigs that use compressed air as a fluid to carry out drilling activity in a range of contexts which could include blast hole drilling, sonic drilling, mineral exploration, piling, construction and maintenance of water
	wells.
	* Waterwell contractors will also require a card/licence issued by Government or industry organisation. The Waterwell card or licence must identify a Class of licence (Class 1, 2 or 3).
Drilling Rig Operators - AUGER	utilise auger rigs to carry out drilling activity in a range of contexts which could include site investigation and sampling, geotechnical work, waterwell construction or maintenance, environmental sampling; piling, pier
	and foundation work.
	* Waterwell contractors will also require a card/licence issued by Government or industry organisation. The Waterwell card or licence must identify a Class of licence (Class 1, 2 or 3).
Drilling Rig Operators - CORE	utilise rigs to carry out drilling activity in a range of contexts which could include mineral exploration, coring underground in areas of confined space, geotechnical drilling, taking core samples, some construction
	work.
Drilling Rig Operators - ROTARY MUD	utilise fluid-powered rigs to carry out drilling activity in a range of contexts which could include drilling water bores and monitoring bores, or in environmental and mineral exploration sectors.
	* Waterwell contractors will also require a card/licence issued by Government or industry organisation. The Waterwell card or licence must identify a Class of licence (Class 1, 2 or 3).
Drilling Rig Operators - CABLE TOOL	utilise cable tool rigs to carry out drilling activity in a range of contexts when working in soft, sedimentary rock formations which could include site investigation or sampling, for the geotechnical, mineral exploration
	and waterwell sectors or waterwell construction.
	* Waterwell contractors will also require a card/licence issued by Government or industry organisation. The Waterwell card or licence must identify a Class of licence (Class 1, 2 or 3).
Drilling Rig Operators - DIRECTIONAL DRILLING	utilise rigs with a steerable system to positively change the borehole direction and angle in a range of contexts. Guided boring is a steerable system for the installation of pipes, conduits and cables or other services. In
	the trenchless technology sector, horizontal directional drilling is similar to guided boring.
SONIC Drilling Rig Operators	utilise rigs with rapidly vibrating drill casings and rods to pulverise or liquidise formation for shallower site investigation or sampling, for undisturbed samples for geological, environmental, archaeological, and seismic
	information
Dogman	An assistant to a crane operator, responsible for securing the crane's load and directing the operator.
Dump Truck	A dump truck operator drives large trucks that transport and dump waste materials like sand, gravel, rock or non-degradable garbage. a large truck for transporting heavy loads, with a back part that can be raised at
	one end so that its contents fall out, wheras a side dump truck (SDT) consists of a 3-axle tractor pulling a 2-axle semi-trailer. It has hydraulic rams which tilt the dump body onto its side, spilling the material to either
	the left or right side of the trailer.
Dump Truck NSW	Does the same work as a Dump Truck driver, however may work on a restricted licence as per the requirements of NSW regulator Safework
Tip Truck	This is a similar description to a Dump truck but is generally used for longer hauls outside of the work site and therefore road registered.