Carmich	nael Rail	sonnel Iaintenance -	sonnel enance)		ntainer						- Concrete	- Timber	t Welding)	thermic)		Α	s and	rator (Light)	rator (Heavy)	ator	×	nouts							
Track ar	nd Civil Competency Matrix	ick Per ion/M	ick Per Mainte		er/Mai		troller	ē.		Ď	uctor .	uctor.	shbut	uminot	ctric)	ail on	witche	nt Ope	ot Ope	t Opera	er Trac	er Turi	ator	۱ اخ		ator		'n	
	Maintain Track / Operate and Maintain Plant	he Tra	he Tra tion/	urer	nload	cator	on Cor	intain	tifier	Inne	Constr	Constr	er (Fla	er (Alı	er (Ele	der - R	der- S	d Plan	d Plan	=	c Test	c Test	r Ope	perato	erato	r Ope	erato	perat	ē
construct and	Manitani Hack / Operate and Manitani Hant	round T Von-Cor ther)	round T	ail Labo	allast U	ail Lubri	egetatic	rack Ma	rack Cer	rack Cor	urnout (	urnout (	ail weld	ail weld	ail weld	ail Grino	ail Grinc rossings ail adius	ail Boun	ail Boun	oad-Rai	Itrasoni	ltrasoni	kcavato	oader O	oller Op	kid Stee	ozer Op	rader O	ruck Div
Rail Safety Worker (\		ν γ	Y €	Y	Y	Y	Y	Y	YY	/ Y	Y	Y	Y	Y	Y	Y	Y Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Medical Requiremen	Railway Medical Category 1 (Cat 1) Safety Critical (>60 = yearly; 50 - 60 = every 2 years; <50 = every 5 years)	<u> </u>	T	T	1 1								Т					М	М	М	<u> </u>	4	_	T	1 1			4	
NTC	Railway Medical Category 3 (Cat 3) Non Safety Critical (200 – yearly, 50 – 60 – every 5 years)  Railway Medical Category 3 (Cat 3) Non Safety Critical (on commencement of duty; >40 = every 5 years)	М	М	М	м	м	М	м	M N	и м	1 М	М	М	м	м	М	M N	_	IVI	IVI	М	М	М	М	М	М	М	м	М
Nat Comp Codes	Competency Requirements (non rail specific)																												
CPCCOHS1001A  Nat Comp Codes	Work Safely in the construction industry (White Card) Licences and machine specific units of competence		M	М	М	М	М	М	M N	и м	1 М	М	М	М	М	М	M N	і М	М	М	М	М	М	М	М	М	М	М	М
AHCCHM307	Prepare and Apply Chemicals		T	Т	1 1		М	Т				_	Т	П				_	_	Т	<del></del>			Τ	П	-	$lue{}$	7	
AHCCHM304	Transport, Handle and Store Chemicals			1			М					1	1						+			+-	+-			-		_	
TLIW0008	Weld rail using flashbutt welding process												М									$\perp$	1					$\Box$	
RIIMPO318F RIIMPO319E	Conduct civil construction skid steer loader operations		+	-						-	-	-	-				_	+	+	+	-	₩	+-		-	М	+	+	
RIIMPO319E	Conduct backhoe/loader operations  Conduct civil construciton excavator operations		+	$\vdash$	$\vdash$				_	+	+	+	+		-+		_	+	+	+	+	+	М	М	+	+	+	+	
RIIMPO323E	Conduct civil construction dozer operations		<u> </u>									1	1								1	士	1			一十	М		
RIIMPO324F	Conduct civil construction grader operations																									工	工	М	
RIIMPO317F	Conduct roller operations		1	1	$\Box$	<u>  </u>	$\Box$				$\perp$	4	1			[	$\perp$	$\perp$		4	4	4_	4	1	М	$\perp$	$\perp$	_	
TLIS2012 TLIB1093	Install and service rail lubrication equipment  Clean equipment and restore worksite		+	+	1	M	$\vdash$		_	-	+	+	+	$\vdash \vdash$		$\dashv$		+	+	+	+	+-	+-	1		+	+	$\dashv$	
TLIC2054	Access rail track to run track vehicle within defined worksite	+	+	+	+	<del>  '''</del>	$\vdash$	$\dashv$		+	+	+	+	$\vdash$	-+	$\dashv$	+	М	М	м	+	+	+	1	+	+	+	+	
Nat Comp Codes	Core and elective courses from TLI2721 Certificate II - Rail Infrastructure																	1						1					
TLIF0020	Safely access the rail corridor (SARC) ^	М	М	М	М	М	М	М	M N	_	_		М	М	М	М	M N		_	_	_	_	М	М	М	М	М	М	М
TLIB1028	Maintain and use hand tools		1	М	М	М		М	M N	_	_		_	М	_	М	M N		_	_	_	_	₩	-				$\rightarrow$	
TLID1001 TLIE1003	Shift materials safely using manual handling methods  Participate in basic workplace communications		-	M	M	M		M M	M N		_	_	M	M	M	M M	M N		_	_	_		+-			-+	-+	$\dashv$	
TLIF1003	Follow occupational health and safety procedures		+	M	M	M		M	M N		_	_	M	M	M	M	M N				_		+-	1		+	+	+	
TLIF2010	Apply fatigue management strategies			М	М	м		М	м м	_	_	_	_	М	_	М	мм		_	_	_		†					_	-
TLIB2085	Apply track fundamentals				М	М		М	M N		_	_		М	_	М	M N	_	_	_		_							
TLIU2008	Apply environmental procedures to rail infrastructure		1	М	М	М		М	M N	_	_	_	М	М	_	М	M N	_	М	М	М	_	₩	-				$\rightarrow$	
TLIB2092 TLIB2097	Operate minor mechanical equipment  Install and maintain guard rails							M M	M N	и м	_		+			М	M N		-	-	+	М	+	-		+	+	+	
TLIB2097	Maintain rail joints			1				M	M N	_	_		_						+			+-	+-			-+	-+	+	
TLIS2030	Carry out track ballasting				М			М	M N	и м	і м	М					N												
TLIS2031	Install railway sleepers							М	M N	_	_	_					N	_				1	1						
TLIS2044	Carry out rail installation		-	-	+			M M	M N	_	_		_	M			N N	_	+-	-	+	+	₩	-	-	$-\!\!\!+$	$-\!\!\!+$	+	
TLIS2034 Nat Comp Codes	Install and repair rail fastening systems  Core and elective courses from TLI27212 Cert II in Rail Infrastructure and TLI37121 Cert III in Rail Infrastructure							M	M	и   м	ı ı ıvı	М	М	М	М		Į IV					$\perp$						$\rightarrow$	
TLIB3094	Check and repair track geometry		Т	Τ					м	М	1 М	М	Т	П	П		Т	Т	Т	Т	Т	$\top$	$\top$	Т	П	op	$\top$	$\Box$	
TLIB3095	Check and repair points and crossings								М		М	М																	
TLIB3099	Examine track infrastructure								M N	_												┷	—				$\rightarrow$	$\rightarrow$	
TLIB3100 TLIB3102	Visually inspect track infrastructure Adjust rail		+	-		$\vdash$			M N	1	-	-	-		-	-	N	+	+	+	-	+-	+-	-		$\dashv$	+	+	
	Travel medium or heavy self-propelled on-track equipment	+	+	+	+	$\vdash$	$\vdash$	$\dashv$		+	+	+	+	$\vdash$	-+	$\dashv$		+	+-	+	+	+	+	1	+	+	+	+	
TLIC2058	NOTE: If travelling outside the possession area, you may need additional competencies - please check with operator.		1			$\sqcup \sqcup$					$\perp$		1	$\sqcup \!\!\! \perp$				$\perp$	М			₩	<del></del>			$\dashv$	$\perp$	$\dashv$	
TLIC0010 TLIC3045	Propel and operate light on-track equipment  Operate road/rail vehicle		+	+	1	$\vdash$	$\vdash$		_	-	+	+	+	$\vdash \vdash$	-	$\dashv$		M	_	М	+	+-	+-	1		+	+	$\dashv$	
TLIS0002	Install and maintain surface track drainage	+	+	+	+	$\vdash$	$\vdash$	$\dashv$	$\dashv$	+	М	М	+	$\vdash$	$\dashv$	$\dashv$	+	→ M	+	171	+	+	+	+	+ +	+	+	+	
TLIS3025	Implement ballast unloading				М					М		_							╧			工	工						_
TLIS3026	Implement track maintenance and construction		<b>_</b>							М	_	_		$\Box$		Ţ			$\Box$			$\bot$	$\perp$			$\bot$	工	工	
TLIS0003	Install turnouts  Construct and accomple points and exercises		-	_	1	$\vdash \vdash$					M	_	-	$\vdash \vdash$		-	-	+	+		_	+-	+-	-	$\vdash$	$\dashv$	$\dashv$	$\dashv$	
TLIS0001 TLIW0004	Construct and assemble points and crossings Grind rails	+	+	1	+	$\vdash$	$\vdash$		-+	+	М	М	+	$\vdash$	$\dashv$	М	+	+	+	+	+	+-	+-	1	$\vdash$	+	+	+	
TLIW0005	Grind switches and crossings		†	1	$\dagger$				$\dashv$	$\top$	$\top$	+	1	$\vdash$	$\dashv$	_	М	$\top$	$\top$		+	+	T	1		+	+	+	
TLIW0006	Heat and cut materials using oxy-LPG equipment for the rail industry													М	М								$\perp$			丰	丰	二	
TLIW3015	Weld rail using aluminothermic welding process		+	╀	-					_	+	+	-	М	NC .				+	-		+-	+-	-		$\dashv$	$\dashv$	$\dashv$	
TLIW0036 TLIW0008	Apply electric welding process to rail  Weld rail using flashbutt welding process		+	+	+ +	$\vdash$	$\vdash$	-+	+	+	+	+	М	$\vdash$	М	$\dashv$	+	+	+	+	+	+	+-	1	$\vdash$	+	+	+	
TLIS3010	Test rail using ultrasonic equipment			1	+				_	+	+		+	$\vdash$	_	$\dashv$	-	+	+		М	М	+	1		+	+	+	
TLIS3011	Test rail using non-destructive testing equipment																					М				士	士	二	
Nat Comp Codes	Plant operator competencies - can hold any one or more																												
TLIW2028 TLIW2029	Identify the principles of ballast cleaning operations  Identify the principles of ballast regulator operations		+	+	+	$\vdash$			_	-	+	+	+	$\vdash$	-+	$\dashv$	_	M <sup>3</sup>			+-	+-	+-	1	+ +	+	+	$\dashv$	
TLIW2030	Identify the principles of dynamic track stabiliser operations		+	1	1		$\vdash$	-	$\dashv$	+	+	+	+	$\vdash$	$\dashv$	$\dashv$	$\dashv$	M <sup>3</sup>		_	+	+	+	1	+ +	+	+	+	
TLIW2031	Identify the principles of self-propelled rail grinder operations										╧							M <sup>3</sup>	* M			土	工						
TLIW2032	Identify the principles of tamping machine operations																	M <sup>3</sup>	M'	•						$oldsymbol{\bot}$	$oldsymbol{\bot}$	$oldsymbol{\bot}$	_
Network Competenc TBD	ies												T												<del>                                     </del>				
טטט			1																			—	—	1					—

Notes:													
M* = Must hold the	machine specific competency or licence relevant to operations.												
A = CRN/Bravus SAI	RC and QR SARC acceptable in lieu until 31/12/2022												
The information con	stained in this matrix is for reference only and could be subject to change from the CRN												
Role		Exa	Examples										
Around The Track Pe	ersonnel (Construction/Maintenance)	the	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 (equival 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 Pe	ersonnel (Non-Construction/Maintenance -Other)		Auditors (inc Safety), Environmental Officers, ie. Arborist or Ecologist, Photographers, Operational roles such as Drivers, Network Operations Supervisors and Planners.										
Ballast Unloader		Rec	Requires the skills and knowledge to carry out ballast unloading.										
Civil Mobile Plant Op	perator	Mo	Mobile plant operators drive and operate heavy machinery used to level, excavate, load and move earth, rock and other material.										
Civil Trade Qualified	Personnel		A trade qualified person is someone who has completed an apprenticeship and received a certificate of proficiency from the relevant regulatory body.										
Earthworker		unc	Supervise the installation and repair rail of earthworks in accordance with safeworking, regulatory and organisational requirements. It includes determining job requirement undertaking trenching, establishing track formation and minor trackside earthworks, and completing documentation in accordance with specifications.										
Rail adjuster		adj	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										
Rail Bound Plant Ope	erator		completing all required documentation.  Track maintenance machines or items of plant which under normal conditions cannot be removed from the track										
Rail Grinder - Rail on	ly		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 comp all required documentation.										
Rail Grinder - Switch	es and Crossings	Is a	a person who grinds switches and crossin	gs to repair welds and repairing of surface profile of switches and crossings in service.									
Rail Labourer		nor	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 woul normally work under the supervision of specific										
Rail Lubricator		Rec		and service rail lubrication equipment, install lubrication equipment, servicing and monitoring, removing lubrication equipment, an									
Rail welder (Aluinoth	nermic)	Rai	il welder encompasses several roles inclu	iding: aluminothermic, flashbutt, and Hedkote. This category also includes heat & cut materials using oxy-LPG equipment									
Rail welder (Electric)		Rai	Rail welder encompasses several roles including: aluminothermic, flashbutt, and Hedkote. This category also includes heat & cut materials using oxy-LPG equipment										
Rail welder (Flashbut			Rail welder encompasses several roles including: aluminothermic, flashbutt, and Hedkote. This category also includes heat & cut materials using oxy-LPG equipment										
Road-Rail Plant Oper	ator	or r	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 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 process										
			-	itness 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		pro	oblems.	ment construction activities including planning work, implementing construction, dealing with maintenance and construction									
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.  Implement track maintenance, conduct mandatory systematic inspection, examination, condition monitoring and functional checks on the rail infrastructure and take										
Track Maintainer			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			nstruction problems.	ment turnout construction activities including planning work, implementing construction, dealing with maintenance and									
Turnout Constructor - Timber			nstruction problems.	ment turnout construction activities including planning work, implementing construction, dealing with maintenance and									
Ultrasonic Tester Track				ultrasonic equipment. It includes determining test requirements, conducting testing using hand directed equipment, conducting elds, identifying and classifying defects, and completing all required documentation.									
Ultrasonic Tester Tur	rnouts	Incl	ludes above role requirements as well as	s: test switches, crossings and other special components in turnouts using ultrasonic and other nondestructive testing equipment. I									
Vegetation Controlle			ntrolling vegetation										
Roles and units of co	ompetency with currency requirements	Ver	rification of Competence										
Rail Bound Plant Op	erator												
TLIC2058	Travel medium or heavy self-propelled on-track equipment		2 Years										
Rail Grinder	I	1											
TLIW0004	Grind rails		2 Years										
Rail Welder (and oth TLIW0006	her roles that include the following units)		2 Years										
TLIW0006 TLIW3015	Heat and cut materials using oxy-LPG equipment for the rail industry  Weld rail using aluminothermic welding process		2 Years 2 Years										
TLIW0036	Apply electric welding process to rail		2 Years										
TLIW0008	Weld rail using flashbutt welding process		2 Years										
Track Certifier and T	rack Examiner (and other roles that include the following units)	<u> </u>											
TLIB3094	Check and repair track geometry		2 Years										
TLIB3099	Examine track infrastructure		2 Years										
TLIB3100	Visually inspect track infrastructure		2 Years										
TLIB3102	Adjust rail		2 Years										
Vegetation Controlle			5 Years										
Ultrasonic Tester Tu TLIS3010	Test rail using ultrasonic equipment		5 Years										
TLIS3010 TLIS3011	Test rail using utrasonic equipment  Test rail using non-destructive testing equipment		2 Years										
. 2.00011			2 10013										