

Carmichael Rail Signalling Systems Matrix

		Senior Signals Engineer	Signal Design				Signal Construction				Signal Maintenance			Signal Testing	Operational Systems													
		Around The Track Personnel (Non-Construction/Maintenance - Other)	Around The Track Personnel (Construction/Maintenance)	Senior Signals Engineer	Senior Signal Design Engineer	Signal Design Engineer	Signal Designer	Lead CADD Operator	CADD Operator	Senior Construction Engineer	Construction Engineer	Supervisor/Team Leader	Signal Technician Construction	Signal Installer Construction	Signal Trades Assistant	Senior Maintenance Engineer	Maintenance Engineer	Supervisor/Team Leader	Signal Maintenance Technician	Principles Test Engineer	Senior Test Engineer	Senior Operational Systems Engineer	Operational Systems Engineer	Operational Systems Developer	Operational Systems Technician	Assessor of Competency		
	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			
Medical Requirements																												
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	M	M		
Nat Comp Codes Competency Requirements (non rail specific)																												
CPCCOHS1001A	Work Safely in the construction industry (White Card)									M	M	M	M	M	M	M	M	M	M	M	M						M	
TAE40116	Certificate IV in Training & Assessment																										M	
Nat Comp Codes Rail Specific Competency Requirements																												
TLIF0020	Safely access the rail corridor (SARC) ^	M	M							M	M	M	M	M	M	M	M	M	M	M	M						M	
MEM40412	Certificate IV in Engineering Drafting							M																				
MSA30208	Certificate III in Manufacturing Technology							M	M																			
UEE40711	Certificate IV in Electronics and Communications																										M	
UEE41210	Certificate IV in Rail Signalling for Electrical ¹											M	M	M				M	M									
	Bachelor Degree in Engineering - Electrical		M	M	M	M			M	M					M					M	M							
	Bachelor Degree in Engineering - Electronics OR Telecommunications OR Mechatronics OR Electrical OR Computer Science																					M	M	M				
	Registered Professional Engineer of Queensland (RPEQ) accreditation		M	M	M																M							
	Certificate IV or Diploma or Adv Diploma or Degree in Railway Signalling or Electrical															M												
	*Queensland Electrical Mechanical Licence or equivalent (refer to list below)									M	M	M					M	M										
Unit of Competency																												
UEENEEN106A	Install and maintain non-vital screen based control systems																										M	
UEENEEN114A	Install and maintain computer based interlocking rail systems																										M	
UEENEEN116A	Maintain electronic and microprocessor-based remote control systems																										M	
Network Competencies																												
TBD																												
The information contained in this matrix is for reference only and could be subject to change from the CRN																												
Notes:																												
M = Mandatory qualification or competency																												
^ CRN/Bravus SARC and QR SARC acceptable in lieu until 31/12/2022																												
*Electrical Mechanic, Electrical Fitter/Mechanic external licence equivalents:																												
New South Wales	Contractor licence endorsed 'electrical wiring work (electrician) Note: This licence only provides an external equivalent to a work licence. It does not provide an external equivalent to a Queensland Electrical Contractor Licence Qualified supervisor certificate - electrical wiring work (electrician)																											
Victoria	Electrician's licence																											
South Australia	Electrical workers registration - any electrical work																											
Tasmania	Electrical technician's licence Electrician's licence Electrical practitioner's licence																											
Westen Australia	'A' Grade electrical workers licence endorsed 'All electrical work' 'A' Grade electrical workers licence endorsed 'electrical mechanic' 'A' Grade electrical workers licence endorsed 'electrical fitter and mechanic' Electrical workers' licence endorsed 'electrician' Electrician's licence that is not endorsed 'electrical fitter'																											
Australian Capital	Unrestricted electrician licence Electrical workers licence endorsed 'electrical mechanic'																											
Northern Territory	Electrical workers licence endorsed 'electrical fitter and mechanic'																											
New Zealand	Practising licence for 'registered electrician'																											
Around The Track Personnel (Non-Construction/Non-Maintenance)		Auditors (inc Safety), Environmental Officers, ie. Arborist or Ecologist, Photographers, Operational roles such as Drivers, Network Operations Supervisors and Planners.																										
Around The Track Personnel (Construction/Maintenance)		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.																										