



# National Signalling Matrix

September 2023 V1

		National Roles/Functions												
		Signalling Electrician (Maintenance)	Signalling Technician	Signalling Electrician (Installer)	Signalling Electrician (in training)	Signalling Assistant Designer	Signalling Designer	Principles Designer	Signalling Assistant Tester	Signalling Verification Tester	Signalling Function Tester	Signalling Principles Tester	Tester in Charge	Signalling Assessor
<b>Requirements</b>	<b>National Requirements</b>													
<b>Medical</b>	Railway Medical Categories (1 or 2 or 3)	M (Cat 1)	M (Cat 1)	M (Cat 1)	M (Cat 1)	#	#	#	#	#	#	#	#	
<b>Access</b>	Safely Access the Rail Corridor - TLIF0020	M	M	M	M	#	#	#	#	#	#	#	#	
	Work Safely in the Construction Industry - CPCCOHS1001	M	M	M	M	#	#	#	#	#	#	#	#	
<b>Qualifications</b>	UEE41223 - Cert IV in Electrical - Rail Signalling	M				1M	1M	1M	1M	1M	1M	1M	1M	
	Bachelor of Engineering (Science)		1M			1M	1M	1M	1M	1M	1M	1M	1M	
	Bachelor of Engineering (Electrical)		1M			1M	1M	1M	1M	1M	1M	1M	1M	
	Bachelor of Technology		1M			1M	1M	1M	1M	1M	1M	1M	1M	
	Bachelor of Engineering (Mechanical)					1M	1M	1M	1M	1M	1M	1M	1M	
	Bachelor of Engineering (Telecommunications)		1M			1M	1M	1M	1M	1M	1M	1M	1M	
	Bachelor of Engineering (Information Technology)		1M			1M	1M	1M	1M	1M	1M	1M	1M	
	1078ONAT - Graduate Diploma in Rail Signalling		1M			1M	1M	1M	1M	1M	1M	1M	1M	
	22327VIC - Graduate Diploma of Railway Signalling		1M			1M	1M	1M	1M	1M	1M	1M	1M	
	22326VIC - Graduate Certificate in Railway Signalling		1M			1M	1M	1M	1M	1M	1M	1M	1M	
	UEE50420 - Diploma of Electrical Engineering		1M			1M	1M	1M	1M	1M	1M	1M	1M	
	UEE53020 - Diploma of Electrical Systems Engineering		1M			1M	1M	1M	1M	1M	1M	1M	1M	
	UET50221 - Diploma of ESI - Power Systems		1M			1M	1M	1M	1M	1M	1M	1M	1M	
	UEE62220 - Advanced Diploma of Electrical - Engineering		1M			1M	1M	1M	1M	1M	1M	1M	1M	
	UEE63020 - Advanced Diploma of Electrical Systems Engineering		1M			1M	1M	1M	1M	1M	1M	1M	1M	
	UET60222 - Advanced Diploma of ESI - Power Systems		1M			1M	1M	1M	1M	1M	1M	1M	1M	
	Cert IV in Relevant Field ( <b>See Note 1</b> )		1M			1M	1M	1M	1M	1M	1M	1M	1M	
	UEE30820 - Cert III in Electrotechnology Electrician		1M	M										
	UEE33020 - Certificate III in Electrical Fitting		1M											
	Non-Washington Accord Degrees ( <b>See Note 2</b> )					1M			1M					
	Formal training evidence ( <b>See Note 3</b> )				1M	1M			1M					
<b>IRSE Licence</b>	Signalling Assistant Designer					1M								
	Signalling Designer						1M							
	Signalling Design Verifier						1M							
	Signalling Principles Designer							1M						
	Signalling Test Assistant								1M					
	Signalling Verification Tester									1M				
	Signalling Function Tester										1M			
	Signalling Principles Tester											1M		
	Signalling Tester in Charge												1M	
	IRSE Exams ( <b>See Note 4</b> )						1M	1M				1M		
	MIRSE or FIRSE ( <b>See Note 5</b> )						1M	1M		1M	1M	1M	1M	



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		Signalling Electrician (Maintenance)	Signalling Technician	Signalling Electrician (Installer)	Signalling Electrician (in training)	Assistant Signalling Designer	Signalling Designer	Principles Designer	Signalling Assistant Tester	Signalling Verification Tester	Signalling Function Tester	Signalling Principles Tester	Tester in Charge	Signalling Assessor
<b>Requirements</b>	<b>National Requirements</b>													
<b>Units of Competency</b>	UEERS0021 – Assemble and wire internal electrical rail signalling equipment			M										
	UEER20024 – Install and maintain rail track circuit leads and bonds			M										
	UEERS0037 – Test copper rail signalling cables			M										
	UEERS0036 – Repair rail signalling power and control cables			M										
	TAEASS412 – Assess Competence													M
<b>Statement of Competence</b>	Signalling Maintenance	M												
	Signalling Technician		M											
	Signalling Installer			M										
	Assistant Signalling Designer													
	Signalling Designer						M							
	Principles Designer							M						
	Signalling Assistant Tester													
	Signalling Verification Tester								M					
	Signalling Function Tester									M				
	Signalling Principles Tester										M			
Tester in Charge												M		
<b>Logbook</b>	Logbook ( <b>See Note 6</b> )	M	M	M			M	M	M	M	M	M	M	

Notes
(1) The following are acceptable equivalents: 21730VIC Cert IV in Rail and Tram Signal Systems, UTE40499 Cert IV in Electro Technology – Computer Systems (Spec in Control) and PTC Signal Maintenance Technician Course (Certificate).
(2) This allows overseas workers to commence their skills development with a Non-Washington Accord Degree.
(3) This role now supports RSW's who have commenced formal AQF training but are yet to complete it. RSW's wishing to comply with any of these Assistant Roles shall upload evidence from the Registered Training Organisation where they are enrolled that demonstrates formal training has commenced. Refer to National Business Rules for evidence that satisfies this note. <sup>1</sup>
(4) Evidence the RIW Cardholder has completed IRSE Exams (All Modules).
(5) MIRSE and FIRSE process involves a process of validating both, qualifications and experience - refer <a href="https://www.irse.org/Membership/Membership-Options">https://www.irse.org/Membership/Membership-Options</a> .
(6) Each role requires a separate assessable logbook in the RIW System. Whilst the RIW Cardholder may well have the one logbook, as professional development occurs the logbook is assessed under the requirements of each role.
1M = At least one of the items is mandatory.
# A Network Operator role (including a medical) will be required if entering the rail corridor.
Electrical Requirements (Minimum) - Introduction to electrical engineering – fundamentals - Basic electrical logic systems - PLC's and microprocessors - Basic data communication networks - Analogue electronics (including problem solving in DC and low voltage AC circuits)

<sup>1</sup> <https://businessrules.riv.net.au/support/solutions/folders/51000054195>