

# ARTC Signalling Matrix

ESP2001F-27 V1.0



	Rail Industry Worker Role						All ARTC Signalling roles require recertification every 4 years							
	Signal Electrician /Maintainer (Note 1,5 & 6)	Signal Installer/ Tester (Note 1 & 5)	Signal Installer (Note 5)	Signal Mechanical Maintenance/ Construction (Note 5)	Signals Trades /Assistants (Note 5 & 6)	Senior Signal Engineer (Design, Field, Construction) (Note 4,5 & 7)	Signal Design Engineer (Note 4,5 & 7)	Signal Designer (Note 4,5 & 7)	Assistant Signal Designer (Note 5)	Signal Project Engineer (Note 4,5 & 7)	Signal Project Manager (Note 3,4,5, & 7)	Signal Engineer Maintenance /Construction (Note 4,5 & 7)	Signal Engineer Maintenance /Construction Pathway 1 (Note 4,3,5 & 7)	Assistant Signal Engineer Maintenance /Construction (Note 5)
<b>Current Requirements</b>														
Electrical Licence (Note 1)	x	x												
Certificate III in Mechanical Rail Signalling or equivalent				x										
Certificate IV in Electrical Rail Signalling or equivalent	x	x											x	
Bachelor of Engineering Degree (Electrical, Electronics and Communication, Mechatronics, Software, Computer Systems, Communications)						x	x			x		x		
<b>One from below:</b> Graduate Diploma of Railway Signalling or equivalent Advanced/Diploma of Electrical Engineering or equivalent Advanced/Diploma of Electrical Systems Engineering or equivalent Advanced/Diploma of ESI Power Systems or equivalent						x				x			x	
<b>One from below:</b> Graduate Diploma of Railway Signalling or equivalent Bachelor/Advanced/Diploma of Electrical Engineering or equivalent Bachelor/Advanced/Diploma of Electrical Systems Engineering or equivalent Advanced/Diploma of ESI Power Systems or equivalent Certificate IV in Electrical Rail Signalling or equivalent														x
<b>One from below:</b> Graduate Diploma of Railway Signalling or equivalent Bachelor/Advanced/Diploma of Electrical Engineering or equivalent Bachelor/Advanced/Diploma of Electrical Systems Engineering or equivalent Advanced/Diploma of ESI Power Systems or equivalent Certificate IV in Electrical Rail Signalling or equivalent IRSE Designer Licence/ IRSE Design Verifier Licence								x	x					
Certificate III (or equivalent) in Electrical or Electronics & Communications <b>OR</b> <b>All of the below:</b> UEERS0021 Assemble and wire electrical rail signalling equipment or equivalent UEERS0024 Install and maintain rail track circuit leads and bonds or equivalent UEERS0037 Test copper rail signalling cables or equivalent			x											
ST144 ARTC Signal Safeworking Course	x	x				x						x	x	x
ST144 – M ARTC Signal Safeworking Course				x										
ARTC Signals Standard Induction (eLearning) (Note 2)	x	x	x	x	x	x	x	x	x	x	x	x	x	x
ARTC Electrical Safety Induction (eLearning) (Note 2)	x	x	x		x	x						x	x	x
Work in Live Locations			x	x	x					x	x	x		x
Approved SOC for Role	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Work Experience Records	x	x	x	x		x	x	x	x	x	x	x	x	x
5 Years (Note 7)						x								
3 Years (Note 7)							x	x		x	x	x	x	

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## Notes:

1. The Electrician's License is required in accordance with state (or federal) legislation to work on electrical wiring which includes signalling infrastructure
2. ARTC E-learning is available on [ARTC's Learning Management System](#)
3. Prerequisite for Signal Project manager role is a Project Management role from the [ARTC Project Management matrix](#)
4. Engineers to ensure they have required state engineering registration as required by their works
5. All the roles have specific additional technical requirements in the [Statement of Competency \(SOC\)](#). Refer to the specific [SOC](#) for details
6. For Electrician Trade competencies refer to [National Trade & Services Matrix](#)
7. Experience must be relevant for the RIW role being applied for

For further information refer to ARTC Standard - [ESP-20-01 Signals Rail Safety Worker Competence Procedure](#).