

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) |
| Current Requirements | | | | | | | | | | | | | | |
| 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 | | |
| One from below: 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 | |
| One from below: 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 |
| One from below: 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 OR All of the below: 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](#).