

# Sydney Trains Licensed Signal Electrician

(Print Name)

This Certificate of Competency is to certify that the person named above has been assessed as competent to work at the levels indicated for the role of Signal Electrician in accordance with the relevant ASA and Sydney Trains Signalling Standards & Procedures. Before any work can commence a Sydney Trains 'Permit to Work' must be obtained.

Signalling Safeworking	Level
Attend Derailments, Collisions, Irregularities & Wrong Side Failures - Assess Situation, Make Safe	
Investigate & Repair Signalling Failures	
Disconnect Operational Signalling Infrastructure	
Inspect, Test & Certify Operational Signalling Infrastructure for the purpose of Maintenance and/or following Corrective Action – competent to conduct all tests for these purposes as listed below in <i>Inspection &amp; Testing</i> , except Circuit Strap & Function Test	
Set to Work, Test & Initial Certification of Track Circuits (*AC / *AD / *CS / *DC / *EW / *ML / *MT / *OL / *WB / *W6 ) – as per Authorisation in Section 8.3 of RG S 41415	
Replace, Inspect, Test & Certify Signalling Apparatus where treated as Like for Like Renewal – competent to conduct all tests for these purposes as listed below in <i>Inspection &amp; Testing</i> , except Circuit Strap & Function Test	
Apply Temporary Bridging in accordance with PR S 40002 & 40009	
Release Track or Indication Locking	
Conduct Associated Signalling Work when Rerailing in Electrified & non-Electrified areas	
Change over of Wires & Cables in accordance with PR S 40011, 40012 & SPG 0711.9	
Inspection & Testing (for new or altered work)	Level
Conduct Documentation Check	
Conduct Correlation Test	
Assist Apparatus Inspection (Relay / Equipment / Wire Analysis)	
Assist Wire & Null Count	
Assist Bell Continuity Test	
Assist Circuit Strap & Function Test and Circuit Function Test (incl Conduct Contact Proving Test)	
Assist Through Circuit & Through System Tests	
Assist Aspect Sequence Test	
Conduct Insulation & Earth Leakage Tests	
Conduct Power Supply & Polarity Tests	
Conduct Correspondence & Out of Correspondence Test	
Assist Signal & Level Crossing Sighting & Focusing	
Assist Track Circuit Test	
Assist Point Lock & Detection Test	
Conduct Gauging of Trainstop	
Signalling Standards, Management Systems & Documentation	Level
Access, Navigate & Use Signalling Standards & Procedures & Engineering Instructions	
Understand & Use Work Instructions & Work Packages	
Understand & Use Technical Maintenance Plans	
Teams III Defect Management System & IFMS Failure Management System	
Signal Plans, Track Insulation Plans, Circuit Books / *Signalling Mechanical Drawings	

Install / Maintain Signalling System & Equipment		
	Level	Level
Electro-Mechanical Interlocking		Track Circuit HVI (JS)
*Relay / *Route Set Interlocking		Track Circuit AF (*CS / *ML / *WB )
SSI Standard Interlocking		Track Circuit AF (*W6 / *ET )
SSI Interlocking (*Westlock / *Smartlock )		Track Circuit (*AC / *DC )
*Westrace Interlocking / *Microlok Interlocking		Track Circuit (*MT / *OL )
Signals (*Mechanical / *Colour Light)		Track Circuit (other)
Points Mechanical		*Axle Counter / *Treadle
Points Electric Combined Machine		1500v DC Traction Bonding
Points Electric (*Clawlock / *Spherolock )		Hard Wired Non-Vital System
Points EP Signal Branch		Telemetry System
Points EP (*Clawlock / *Spherolock )		Control / Indication System (*ATRICS / *SigView / *WestCad )
Level Crossing Protection		Vital Shelf Relay
Cerberus Level Crossing Monitors		ATP Trackside Equipment
Trainstops (all types)		Locate Signalling Services
Electric Releasing Devices		Track Insulation Bonding / *Cadweld
Mechanical Releasing Devices		

**Agreement:**

Signature \_\_\_\_\_ Date \_\_\_\_ / \_\_\_\_ / \_\_\_\_

**Certification by Signal Engineer:**

Name \_\_\_\_\_

Signature \_\_\_\_\_ Date \_\_\_\_ / \_\_\_\_ / \_\_\_\_

- LEVEL 1** – Competent to perform the identified activity without supervision.
- LEVEL 2** – Competent to perform the identified activity under varying degrees of supervision, dependant on complexity.
- STRIKE OUT** – Not competent to perform the identified activity. \* Cross-out not applicable