ST S 43001

Carry out an Inspection in a Live Signal Location (SCS01)

Version 1.1

Date in Force: 13 December 2022

Sydney Trains – Engineering System Integrity
Engineering Standard – Signalling and Control Systems
Carry out an Inspection in a Live Signal Location (SCS01)

ST S 43001

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Document control

Version	Date	Author/Prin. Eng.	Summary of change
1.0	28 May 2018	Mark Albrecht	First issue as Sydney Trains document
1.1	13 December 2022	David Mulley	3-year review: no change to technical content. Date and version number updated.

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1 Carry out an Inspection in a Live Signal Location (SCS01)

This unit covers the application of knowledge required to carry out an inspection in a Live Signal Location.

1.1	Elements	1.2	Performance Criteria
SCS01.1	Prepare to carry out an inspection of a Live Signal Location	SCS01.1.1	All necessary documentation, and work instructions are obtained
		SCS01.1.2	All necessary resources, including competent staff, tools and equipment are obtained
		SCS01.1.3	All necessary planning and reporting arrangements for track access and worksite protection ('work on track') are completed
SCS01.2	Access a Live Signal Location	SCS01.2.1	Enter location and identify signalling and inspection areas
		SCS01.2.2	Identify the risk, and establish controls of the inspection area
		SCS01.2.3	Carry out inspection activities
		SCS01.2.4	Ensure that the inspection does not compromise the integrity of the signalling system
SCS01.3	Complete notifications and egress from a Live Signal Location	SCS01.3.1	Ensure inspection area is clear and secure location on exit
		SCS01.3.2	Arrange notifications of completed work and reporting responsibilities

1.3 Range of Variables

Signal Location includes:

- relay rooms

- walk-in locations

- apparatus cupboards

- signalling equipment outside of a relay room, walk-in location and apparatus cupboard.

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Relevant standards and instructions include:

- SWMS and SWIs
- Signalling Safeworking Procedures:
  - Security, fire protection, weather proofing and cleanliness of signalling equipment, housings and locations
  - Use of Radio Transmitters Near Electronic Signalling Systems
  - Safety Issues for Signalling Personnel
  - Signalling Locations and Equipment – Security Locks and Keys.

Standard configuration documents and records include:

- Track plan/signalling plan or Detailed Site Surveys (DSS)
- Log Book.

Work activities may include:

- Observation and photography
- Physical Measurements
- Site Inductions.

1.4 Knowledge Requirements

The following underlying knowledge elements are requirements for achieving of this competence:

- Read and follow work instructions.
- Read and interpret DSS and/or signalling documentation.
- Communication protocol.
- Reporting and contact relationships.

1.5 Competency Requirements

The following knowledge, competency and qualification requirements shall be achieved as a pre-requisite to the awarding of this competency.

Pre-Requisite Entry Requirements:

- Rail Industry Safety Induction card (RISI)
- WHS General Construction Induction Training Card (GIT Card also known as White Card)
- Category 3 Health Worker.

Training Requirements:

- EI06 Access to and working safely in a Live Signal Location.

Technical Competency:

- Nil.

Behavioural Competency

- Nil.

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1.6 Evidence Guide

This provides essential advice for the assessment of the unit and must be read in conjunction with the performance criteria and range statement.

Each element and associated performance criteria must be demonstrated on at least two occasions, one of which being a practical demonstration.

Before the critical aspects of evidence are considered, all pre-requisites must be met.

Candidates demonstrate their knowledge and understanding of carrying out an Inspection in a Live Signal Location by:

- Documentary evidence of appropriate training and qualifications held.

- Log book showing relevant experience of inspections in a live railway signalling environment and supervisors report.

- Responses to questioning by the competence assessor.

Candidates demonstrate their competence to carry out an Inspection in a Live Signal Location by:

- Preparing to carry out an inspection in a Live Signal Location.

- Accessing a Live Signal Location.

- Identifying risks in the location, and appropriate controls to be applied.

- Completing notifications and egress from a Live Signal Location.

Critical aspects of evidence required to demonstrate competency in this unit

Demonstrated consistent performance across a representative range of contexts from the prescribed items below.

Carry out an inspection in a Live Signal Location including the following:

- Site access obtained correctly.

- Interpreting signalling documentation and/or DSS correctly.

- Identifying the risks of an inspection in a Live Signal Location.

- Mitigating the risks that were identified.

- Carry out the inspection safely.

- Directing and communicating effectively with team members.

- Leaving the signal location in a clean and tidy state.

- Completing relevant records and documentation.

- Dealing with unplanned events by drawing on essential knowledge and skills to provide appropriate solutions incorporated in the holistic assessment with the above listed items.

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1.7 Assessment Context

This unit should be assessed as it relates to normal workplace practice using procedures, information and resources typical of a workplace. This should include a suitable work environment, facilities, equipment and materials to undertake actual work as prescribed in this unit.

Where simulation is considered a suitable strategy for assessment, conditions must be authentic and as far as possible, replicate the real workplace environment both behaviourally and functionally.

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