



Australian Government

TLIS3023 Erect and mount structures and housings for signalling equipment

Release: 1

TLIS3023 Erect and mount structures and housings for signalling equipment

Modification History

Release 1. This is the first release of this unit of competency in the TLI Transport and Logistics Training Package.

Application

This unit involves the skills and knowledge required to erect and mount structures and housings for signalling equipment in accordance with safeworking and regulatory requirements, and workplace procedures.

It includes installing the foundations, assembling the components, and installing and mounting the structures and housings in accordance with specifications.

People achieving competence in this unit will need to fulfil the applicable state/territory legislated rail safety requirements and to comply with relevant codes of practice and/or guidelines.

Work is performed under minimal supervision, generally within a team environment. It involves the application of routine operational principles and procedures when carrying out general site maintenance, as part of workplace activities across a variety of operational contexts within the Australian rail system.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Not applicable.

Competency Field

S – Construction and Installation

Unit Sector

Not applicable.

Elements and Performance Criteria

Elements describe the Performance criteria describe the performance needed to

essential outcomes.

demonstrate achievement of the element.

1 Install foundations

- 1.1 Hazards are identified, risks are assessed and control measures are implemented
- 1.2 Worksite is inspected and appropriate arrangements are made for safe access for heavy plant and equipment
- 1.3 Foundations are poured/laid in the correct location, size and quality requirements in accordance with the work orders and job specifications
- 1.4 Authorisation is confirmed as required to ensure safe train operations may continue

2 Assemble components

- 2.1 Components are correctly identified, prepared and laid out for assembly in accordance with work orders/assembly specifications
- 2.2 Components are pre-assembled in the correct sequence and checked to ensure safe and efficient installation can commence

3 Install and mount structures and housings

- 3.1 Structures are positioned on foundations and checked for compliance to job specifications in preparation for securing
- 3.2 Structures are secured and checked for compliance with safety requirements and job specifications
- 3.3 Housings and other equipment/components are correctly positioned, installed and secured to comply with work orders and job specification requirements
- 3.4 Housings and other equipment/components are secured to ensure correct orientation to track and to prevent unauthorised access
- 3.5 Structures and housings are positioned to ensure they are clear of all other structures, obstructions and interference, including minimum structure gauge
- 3.6 Equipment is locked and secured to maintain site safety and security

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

Range is restricted to essential operating conditions and any other variables essential to the work environment.

Non-essential conditions can be found in the Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is equivalent to TLIS3023A Erect and mount structures and housings for signalling equipment.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=df441c6e-213d-43e3-874c-0b3f7036d851>

Assessment Requirements for TLIS3023 Erect and mount structures and housings for signalling equipment

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Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria on at least one occasion and include:

- applying relevant workplace procedures
- assembling and pre-assembling pre-made components
- checking compliance of work with job specifications
- completing relevant documentation
- identifying job hazards and taking required action to minimise, control or eliminate identified hazards
- interpreting and following operational instructions and prioritising work
- measuring and laying out plans
- modifying activities depending on operational contingencies, risk situations and environments
- monitoring work activities in terms of planned schedule
- planning own work including predicting consequences and identifying improvements
- reading and interpreting relevant technical data, instructions and manuals
- reporting and/or rectifying identified problems, faults or malfunctions, in accordance with workplace procedures
- selecting and using relevant equipment and tools
- working collaboratively with others
- working systematically with required attention to detail without injury to self or others, or damage to equipment.

Knowledge Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria and include knowledge of:

- applicable state/territory legislated rail safety requirements, relevant codes of practice and/or guidelines
- characteristics of plant and equipment, transport, structures, hardware and components used in work activities
- hazardous materials and situations and related personal protection measures
- hazards that may exist when erecting and mounting structures and housings for signalling equipment and ways of controlling the risks involved
- impact on work activities of regulatory requirements
- information in workplace technical manuals and instructions
- problems that may occur when erecting and mounting structures and housings for signalling equipment and action that can be taken to report or resolve these problems
- rail operations and train movement
- relevant work health and safety (WHS)/occupational health and safety (OHS) and environmental procedures and regulations
- relevant recording and documentation procedures
- safety data sheets (SDSs)/material safety data sheets (MSDSs) and/or manufacturer instructions and workplace procedures
- track layout
- workplace documentation and records system management related to the work concerned
- workplace procedures for erecting and mounting structures and housings for signalling equipment.

Assessment Conditions

As a minimum, assessors must satisfy applicable regulatory requirements, which include requirements in the *Standards for Registered Training Organisations* current at the time of assessment.

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Assessment must occur in workplace operational situations or, where this is not available, in simulated workplace operational situations that replicate rail corridor workplace conditions.

Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.

Resources for assessment include:

- a range of relevant exercises, case studies and/or simulations
- relevant and appropriate materials, tools, equipment and personal protective equipment currently used in industry
- applicable documentation including workplace procedures, regulations, rail industry standards, SDSs/MSDSs, codes of practice and operation manuals.

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