



Australian Government

TLIS0001 Construct and assemble points and crossings

Release: 1

TLIS0001 Construct and assemble points and crossings

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 construct and assemble points and crossings with concrete, steel, timber or composite sleepers and bearers as part of a construction team, in accordance with rail network standards, safeworking and regulatory requirements, and workplace procedures.

It includes preparing for construction work, carrying out relevant construction work, assembling points and crossings, and completing required documentation.

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.

The unit involves the application of routine operational principles and procedures when constructing points and crossings on concrete, steel and undrilled timber or composite bearers, 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

Rail sector.

Elements and Performance Criteria

ELEMENTS

PERFORMANCE CRITERIA

Elements describe the essential Performance criteria describe the performance needed to

outcomes.

demonstrate achievement of the element.

1 Prepare points and crossings

1.1 Work requirements are determined to identify scope of work and resources required

1.2 Construction design or plan is obtained and interpreted

1.3 Hazards are identified, risks are assessed and control measures are implemented

1.4 Required resources are acquired

1.5 Assembly area is prepared or identified in accordance with workplace procedures

1.6 Delivered materials are checked for compliance with design

2 Assemble points and crossings

2.1 Construction design or plan is implemented in accordance with manufacturer instructions and workplace procedures

2.2 Unsuitable points and crossings equipment replacements are sourced, as required, in accordance with workplace procedures

3 Fabricate points and crossings

3.1 Structure is fabricated according to design specification

3.2 Bearers are selected for correct length, placed on assembly area and marked up in accordance with specified design and workplace procedures

3.3 Reference rail is selected, marked up and fixed to bearers in accordance with specified design and workplace procedures

3.4 Remaining steelwork is adjusted for correct geometry and is attached to bearers in accordance with specified design and workplace procedure

4 Check for compliance

4.1 Dimensions, geometry and condition of points and crossings are checked for compliance with design

4.2 Non compliances are repaired or replaced, as required, in accordance with workplace procedures

4.3 Documentation is completed and processed in accordance with workplace procedures

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 TLI Transport and Logistics Training Package Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces but is not equivalent to TLIS3040 Construct concrete or steel points and crossings and TLIS3041 Construct timber or composite points and crossings.

Links

Companion Volume Implementation Guides are found in VETNet -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=df441c6e-213d-43e3-874c-0b3f7036d851>