



Australian Government

TLIW2033 Identify the principles of mechanised track laying operations

Release: 2

TLIW2033 Identify the principles of mechanised track laying operations

Modification History

Release 2. This is the second release of this unit of competency in the TLI Transport and Logistics Training Package:

- Minor statement changes in Assessment Conditions.

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 identify the principles of mechanised track laying operations.

It includes identifying components and work stations of mechanised track laying machines, identifying mechanised track laying functions, and identifying hazards and risks associated with mechanised track laying operations.

The unit provides an introduction to mechanised track laying machines and is not to be used for their operation, which must be covered by individual certification for the particular machine or individual work stations.

Components may include:

- ballast conveyor
- control panels
- cutter bar and chain
- front liner
- gantry crane
- laying frame
- new sleeper laying base
- old sleeper pick-up
- plough
- rail clamps
- rail feeders
- rear liner
- sleeper table
- steering.

Work stations may include:

- chain operator station
- deflection operator station

- drive station
- gantry crane operator station
- jewellery wagon
- main operator station
- pad layer station
- rail feeder station.

Operators of mechanised track laying machines must have undertaken training and hold the relevant licence, permit or certificate and be recognised as competent for each type of machinery being used.

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

Pre-requisite Unit

Not applicable.

Competency Field

W – Equipment and Systems Operations

Unit Sector

Rail sector.

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Identify components and work stations of mechanised track laying machines

2 Identify mechanised track laying functions

PERFORMANCE CRITERIA

Performance criteria describe the performance needed to demonstrate achievement of the element.

1.1 Mechanised track laying machine components and individual work stations are identified

1.2 Purpose of identified components and work stations is explained

1.3 Associated hazards of each component and work station and appropriate control methods are identified

2.1 Purposes of mechanised track laying are identified

- 2.2 Methods by which the mechanised track laying machine constructs or refurbishes track to meet network owner's rail industry standards, are identified
- 3 **Identify hazards and risks associated with mechanised track laying operations**
 - 3.1 Environmental hazards are identified
 - 3.2 Potential risks to the rail infrastructure are identified

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.

Unit Mapping Information

This unit replaces and is equivalent to TLIW2033A Identify the principles of mechanised track laying operations.

Links

Companion Volume Implementation Guides are found in VETNet -

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