



**Australian Government**

# **TLIW2032 Identify the principles of tamping machine operations**

**Release: 2**

# TLIW2032 Identify the principles of tamping machine 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 unit Application
- 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 tamping machine operations for plain track and turnouts.

It includes determining components and work stations of tamping machines, identifying tamping machine functions, and identifying hazards and risks associated with tamping machine operations.

The unit provides an introduction to tamping machines and is not to be used for their operation, which must be covered by individual certification for the particular machine.

Components may include:

- clamps/roller clamps
- lasers
- lifting and lining systems
- lifting units, including third arm
- ploughs
- rail sweeps
- satellites
- tamping tools and work heads
- trolleys.

Work stations may include:

- interpret and data input
- drive station
- external work station and ground person
- front tower
- laser operation station
- main operator station.

Operators of tamping 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 Determine components and work stations of tamping machines**

#### **2 Identify tamping machine functions**

#### **3 Identify hazards and risks associated with tamping machine operations**

### PERFORMANCE CRITERIA

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

- 1.1** Tamping machine components and individual work stations are identified
- 1.2** Purpose of identified components and individual work stations is explained
- 1.3** Associated hazards of each component and appropriate control methods are identified

- 2.1** Purposes of tamping machine are identified
- 2.2** Methods by which the tamping machine constructs or maintains the track to the required track geometry in accordance with network owner's standards, are identified

- 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 TLIW2032A Identify the principles of tamping machine operations.

## Links

Companion Volume Implementation Guides are found in VETNet -

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