



Australian Government

**TLILIC0012 Licence to operate a vehicle
loading crane (capacity 10 metre tonnes and
above)**

Release: 1

TLILIC0012 Licence to operate a vehicle loading crane (capacity 10 metre tonnes and above)

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 specifies the skills and knowledge required to safely operate a vehicle loading crane with a capacity of 10 metre tonnes or more

Vehicle loading crane means a crane mounted on a vehicle for the purpose of loading and unloading the vehicle.

This unit applies to the activities of a person operating a vehicle loading crane with a capacity of 10 metre tonnes or more, and includes applying load estimation and slinging techniques to move a load.

A person performing this work is required to hold a vehicle loading crane high risk work (HRW) licence.

This unit requires a person operating vehicle loading crane to plan the work, conduct routine checks, set up the crane, shift loads in a safe manner and safely shut down and secure the crane.

Licensing/Regulatory Information

This unit is based on the licensing requirements of Part 4.5 of the Model Work Health and Safety (WHS) Regulations, HRW and meets Commonwealth, state and territory HRW licensing requirements.

Any alteration to this unit would result in a unit that would not be acceptable to work health and safety (WHS)/occupational health and safety (OHS) regulators for the purpose of licensing.

Pre-requisite Unit

Not applicable.

Competency Field

LIC – Licensing

Unit Sector

Not applicable.

Elements and Performance Criteria

ELEMENTS

PERFORMANCE CRITERIA

Elements describe the essential outcomes.

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

1 Plan work

- 1.1 Potential workplace hazards are identified
- 1.2 Hazard control measures are identified consistent with appropriate standards to ensure the safety of personnel and equipment
- 1.3 Weight of load is identified and estimated in consultation with associated personnel as required
- 1.4 Suitable lifting points on load are identified in consultation with associated personnel
- 1.5 Appropriate lifting equipment is obtained following consultation with associated personnel
- 1.6 Crane capabilities are appropriate to the load/s, working conditions and environmental conditions
- 1.7 Appropriate paths for moving loads in the work area are inspected and determined
- 1.8 Appropriate communication methods are identified with associated personnel

2 Conduct routine checks

- 2.1 Crane is visually checked for any damage or defects
- 2.2 All signage and labels are visible and legible in accordance with the appropriate standard.
- 2.3 Routine pre-operational crane checks are carried out in accordance with procedures

- 2.4 All controls are located and identified
- 2.5 Crane service logbook is checked for compliance
- 2.6 Crane is started in accordance with procedures and checked for any abnormal noises
- 2.7 All crane safety devices are tested in accordance with procedures
- 2.8 Post-start operational checks are carried out in accordance with procedures
- 2.9 All communication equipment is checked for serviceability
- 2.10 All damage and defects are reported and recorded in accordance with procedures, and appropriate action is taken

3 Set up crane

- 3.1 Ground suitability is checked
- 3.2 Crane is driven to work area in accordance with procedures
- 3.3 Crane is positioned for work application and stability in accordance with procedures
- 3.4 Outriggers/stabilisers are deployed and locked in accordance with manufacturer instructions, and required type and amount of padding material or plates is determined
- 3.5 Boom/jib and configuration data is input into the crane computer as required
- 3.6 Appropriate hazard prevention/control measures are applied to work area in accordance with procedures
- 3.7 All communications equipment is tested for functionality
- 3.8 Lifting equipment is prepared for load in accordance with procedures
- 3.9 Load destination is prepared

4 Transfer loads

- 4.1 Loads are determined within crane capacity
- 4.2 Boom/jib and hoist block is positioned over load following directions from associated personnel
- 4.3 Lifting equipment is attached and secured using defined techniques in accordance with procedures
- 4.4 Test lift is carried out in accordance with procedures to allow for

checks to be safely made, in consultation with relevant personnel

- 4.5 Loads are transferred using all relevant crane movements in accordance with procedures and the appropriate standard
 - 4.6 All required communication signals are correctly interpreted in accordance with procedures and the appropriate standard
 - 4.7 Load is landed ensuring stability and security from movement
 - 4.8 Lifting equipment is removed or disconnected from load and/or lifting hook in accordance with procedures
 - 4.9 Crane is operated in accordance with procedures
 - 4.10 Load movement is monitored constantly, ensuring safety of personnel and load, and crane stability
 - 4.11 Unplanned and/or unsafe situations are responded to in accordance with procedures
- 5 Shut down and secure crane**
- 5.1 Crane boom/jib and equipment are stowed and secured in accordance with procedures and the appropriate standard
 - 5.2 Relevant motion locks and brakes are applied as required
 - 5.3 Outriggers/stabilisers are stowed and secured in accordance with procedures
 - 5.4 Plates or packing are stowed and secured
 - 5.5 Crane is shut down in accordance with procedures
 - 5.6 Routine post-operational crane checks are carried out in accordance with procedures
 - 5.7 Lifting equipment is stored in accordance with procedures and the appropriate standards
 - 5.8 All damage and defects are reported and recorded in accordance with procedures, and appropriate action is taken

Foundation Skills

The language, literacy, numeracy and employment skills that are essential to performance that are not explicit in the unit are listed below.

Skill	Performance feature
Employment skills to:	<ul style="list-style-type: none"> • operate a vehicle loading crane with a capacity of 10 metre tonnes and above in different types of workplaces, transferring key principles of safe operation to different contexts • improve own performance in safely and efficiently operating a vehicle loading crane by incorporating learnings from different workplaces and different conditions into current performance
Numeracy skills to:	<ul style="list-style-type: none"> • interpret numerical information including: <ul style="list-style-type: none"> • selecting appropriate vehicle loading crane in accordance with load and workplace conditions • load weight assessment, to ensure compliance with vehicle loading crane data plate specifications • controlling and monitoring instrument readings
Language skills to:	<ul style="list-style-type: none"> • use and interpret vocabulary specific to vehicle loading crane operations and workplace procedures to communicate with other workplace personnel • use non-verbal feedback to support effective communication • use relevant two-way radio conventions
Literacy (reading) skills to:	<ul style="list-style-type: none"> • interpret documentation that includes technical specificity including: <ul style="list-style-type: none"> • vehicle loading crane data plate • plant operation manuals and manufacturer specifications • workplace procedures, including emergency plan • workplace signage and labels
Literacy (writing) skills to:	<ul style="list-style-type: none"> • accurately record and maintain information relating to operating a vehicle loading crane, including: <ul style="list-style-type: none"> • incident reports • vehicle checking and maintenance records
Self-management skills to:	<ul style="list-style-type: none"> • implement risk control measures • initiate emergency management strategies

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 is equivalent to TLILIC0012A Licence to operate a vehicle loading crane (capacity 10 metre tonnes and above).

Links

TLI Transport and Logistics Training Package Companion Volume Implementation Guide at:
- http://companion_volumes.vetnet.education.gov.au/Pages/TrainingPackage.aspx?pid=23