



Australian Government

TLILIC3004 Licence to operate a derrick crane

Release: 1

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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 operate a derrick crane safely.

Derrick crane means a slewing strut-boom crane with its boom pivoted at the base of a mast that is:

- capable of luffing under load
- guyed (guy-derrick) or held by backstays (stiff-legged derrick).

This unit applies to the activities of a person operating a derrick crane.

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

This unit requires a person operating a derrick crane to plan work, conduct routine checks, transfer a load, and shut down and secure a 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
- 1.4 Appropriateness of crane to load/s and workplace conditions is confirmed
- 1.5 Appropriate path for moving loads in work area is determined and inspected
- 1.6 Appropriate communications methods are identified in consultation with associated personnel

2 Conduct routine checks

- 2.1 Ground stability is checked
- 2.2 Crane is visually checked for damage or defects
- 2.3 All signage and labels are checked to ensure they are visible and legible, in accordance with the appropriate standard
- 2.4 Appropriate crane configuration for work task is determined in accordance with procedures
- 2.5 Routine pre-operational crane checks are carried out in accordance with procedures
- 2.6 All controls are located and identified
- 2.7 Crane service logbook is checked for compliance
- 2.8 Crane is started in accordance with procedures and is checked for any abnormal noises

- 2.9 All crane safety devices are tested in accordance with procedures
- 2.10 Post-start operational checks are carried out in accordance with procedures
- 2.11 All communications equipment is checked for serviceability
- 2.12 All damage and defects are reported and recorded in accordance with procedures, and appropriate action is taken

3 Transfer load

- 3.1 Lifts are determined within crane capacity
- 3.2 Appropriate hazard prevention/control measures are applied to work area in accordance with procedures
- 3.3 Boom/jib and hoist block is positioned over load following directions from associated personnel
- 3.4 Test lift is carried out in accordance with procedures to allow for checks to be safely made, in consultation with relevant personnel
- 3.5 Loads are transferred using all relevant crane movements, in accordance with procedures and the appropriate standard
- 3.6 All required communications signals are interpreted correctly in accordance with procedures and the appropriate standard
- 3.7 Crane is operated in accordance with procedures
- 3.8 Load movement is monitored constantly, to ensure safety of personnel and load, and structural stability
- 3.9 Unplanned and/or unsafe situations are responded to in accordance with procedures

4 Shut down and secure crane

- 4.1 Relevant motion locks and brakes are applied as required
- 4.2 Crane equipment is stowed and secured as required, in accordance with procedures and the appropriate standard
- 4.3 Crane is shut down in accordance with procedures
- 4.4 Routine post-operational crane checks are carried out in accordance with procedures
- 4.5 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 derrick crane in different types of workplaces transferring key principles of safe operation to different contexts • improve own performance in safely and efficiently operating a derrick 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 derrick crane in accordance with load and workplace conditions • load weight assessment, to ensure compliance with derrick crane data plate specifications • controlling and monitoring instrument readings
Language skills to:	<ul style="list-style-type: none"> • use and interpret vocabulary specific to derrick 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"> • derrick 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 derrick 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 TLILIC3004A Licence to operate a derrick crane.

Links

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