



**Australian Government**

**TLILIC3006 Licence to operate a  
non-slewing mobile crane (greater than 3  
tonnes capacity)**

**Release: 1**

## **TLILIC3006 Licence to operate a non-slewing mobile crane (greater than 3 tonnes capacity)**

### **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 non-slewing mobile crane safely.

Non-slewing mobile crane means a mobile crane incorporating a boom or jib that cannot be slewed, and includes:

- an articulated mobile crane
- a locomotive crane

but does not include vehicle tow trucks.

This unit applies to the activities of a person operating a non-slewing crane with a capacity exceeding 3 tonnes.

A person performing this work is required to hold a non-slewing mobile crane high risk work (HRW) licence.

This unit requires a person operating non-slewing mobile crane to plan the work, conduct routine checks, set up crane, transfer load, mobile load and shut down and secure 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 Crane is appropriate to the load/s and workplace conditions
- 1.5 Appropriate path for moving loads in work area is inspected and determined
- 1.6 Appropriate communications methods are identified in consultation with associated personnel

#### 2 Conduct routine checks

- 2.1 Crane is visually checked for any damage or defects
- 2.2 Crane is accessed in a safe manner
- 2.3 All signage and labels are checked to ensure they are visible and legible in accordance with the appropriate standard
- 2.4 Routine pre-operational crane checks are carried out in accordance with procedures
- 2.5 All controls are located and identified
- 2.6 Crane service logbook is checked for compliance
- 2.7 Crane is started in accordance with procedures and is checked for any abnormal noises
- 2.8 All crane safety devices are tested in accordance with procedures
- 2.9 Post-start operational checks are carried out in accordance with procedures
- 2.10 All communications equipment is checked for serviceability
- 2.11 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 Appropriate crane configuration for work task is determined in accordance with procedures
- 3.5 Boom/jib and counterweight configuration data is input into 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

### **4 Transfer load**

- 4.1 Lifts are determined within the capacity of the crane
- 4.2 Boom/jib and hoist block is positioned over load following directions from associated personnel
- 4.3 Test lift is carried out in accordance with procedures to allow for checks to be safely made, in consultation with relevant personnel
- 4.4 Loads are transferred using all relevant crane movements in accordance with procedures and the appropriate standard
- 4.5 All required communications signals are correctly interpreted in accordance with procedures and the appropriate standard
- 4.6 Crane is operated in accordance with procedures
- 4.7 Load movement is monitored constantly, to ensure safety of personnel and load, and crane stability
- 4.8 Unplanned and/or unsafe situations are responded to in accordance with procedures

### **5 Mobile load**

- 5.1 Suitability of planned route for crane is checked in accordance with procedures
- 5.2 Crane is configured to mobile load in accordance with procedures
- 5.3 Load is moved using best mobile practice in accordance with

the appropriate standard

## 6 Shut down and secure crane

- 6.1 Crane boom/jib and equipment are stowed and secured as required, in accordance with procedures and the appropriate standard
- 6.2 Relevant motion locks and brakes are applied as required
- 6.3 Outriggers/stabilisers are stowed and secured as required in accordance with procedures
- 6.4 Crane is shut down in accordance with procedures
- 6.5 Routine post-operational crane checks are carried out in accordance with procedures
- 6.6 Plates or packing are stowed and secured as required
- 6.7 All damage and defects are recorded and reported 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"> <li>• operate a non-slewing mobile crane (greater than 3 tonnes capacity) in different types of workplaces transferring key principles of safe operation to different contexts</li> <li>• improve own performance in safely and efficiently operating a non-slewing mobile crane (greater than 3 tonnes capacity) by incorporating learnings from different workplaces and different conditions into current performance</li> </ul>
Numeracy skills to:	<ul style="list-style-type: none"> <li>• interpret numerical information including:                             <ul style="list-style-type: none"> <li>• selecting appropriate non-slewing mobile crane (greater than 3 tonnes capacity) in accordance with load and workplace conditions</li> <li>• load weight assessment, to ensure compliance with non-slewing mobile crane (greater than 3 tonnes capacity) data plate specifications</li> <li>• controlling and monitoring instrument readings</li> </ul> </li> </ul>
Language skills to:	<ul style="list-style-type: none"> <li>• use and interpret vocabulary specific to non-slewing mobile crane (greater than 3 tonnes capacity) operations and workplace</li> </ul>

Skill	Performance feature
	<p>procedures to communicate with other workplace personnel</p> <ul style="list-style-type: none"><li>• use non-verbal feedback to support effective communication</li><li>• use relevant two-way radio conventions</li></ul>
Literacy (reading ) skills to:	<ul style="list-style-type: none"><li>• interpret documentation that includes technical specificity including:<ul style="list-style-type: none"><li>• non-slewing mobile crane (greater than 3 tonnes capacity) data plate</li><li>• plant operation manuals and manufacturer specifications</li><li>• workplace procedures, including emergency plan</li><li>• workplace signage and labels</li></ul></li></ul>
Literacy (writing) skills to:	<ul style="list-style-type: none"><li>• accurately record and maintain information relating to operating a non-slewing mobile crane (greater than 3 tonnes capacity), including:<ul style="list-style-type: none"><li>• incident reports</li><li>• vehicle checking and maintenance records</li></ul></li></ul>
Self-management skills to:	<ul style="list-style-type: none"><li>• implement risk control measures</li><li>• initiate emergency management strategies</li></ul>

## 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 TLILIC3006A Licence to operate a non-slewing mobile crane (greater than 3 tonnes capacity).

## Links

Companion Volume implementation guides are found in VETNet -

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