



Australian Government

TLID3044 Shift loads using cranes

Release: 1

TLID3044 Shift loads using cranes

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 involves the skills and knowledge required to shift loads using cranes in accordance with workplace and regulatory requirements, as part of work activities in the transport and logistics industry.

It includes planning work for the current working conditions, using controls and crane operating systems, locating and identifying load characteristics and safely moving loads. It also includes monitoring controls and stopping, shutting down and securing the crane after the completion of operations.

Work is performed under some supervision generally within a team environment.

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

Pre-requisite Unit

Not applicable.

Competency Field

D – Load Handling

Unit Sector

Not applicable.

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Plan work for the current working conditions

PERFORMANCE CRITERIA

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

- 1.1 Traffic flow and work area conditions are constantly assessed and anticipated to allow safe operation to ensure no injury to people, or damage to crane, loads or facilities
- 1.2 Load characteristics are taken into account to ensure appropriate attachments/gear are used to move load as

required

- 1.3 Occurrences in the work area that may affect the safety and efficiency of operations are reported to appropriate personnel
- 2 Use controls and crane operating systems**
- 2.1 Crane is prepared for operation in accordance with manufacturer instructions and workplace procedures
 - 2.2 Crane is started in accordance with manufacturer guidelines
 - 2.3 Instruments and gauges are monitored during start up and operations to ensure operation is within manufacturer specifications and workplace/regulatory safety requirements
 - 2.4 Engine power is managed for efficiency of crane movement and economy of crane operations
 - 2.5 Crane operations are conducted within manufacturer specified torque range
 - 2.6 Faults or damage to crane are immediately reported to appropriate personnel
- 3 Locate load and identify load characteristics**
- 3.1 Load is located and identified in accordance with instructions
 - 3.2 Requirements for safe working load (SWL) and working load limit (WLL) of the crane are identified
 - 3.3 Load weight and dimensions are checked to ensure they fall within the crane capacity
 - 3.4 Loading and unloading plans are followed to ensure efficiency and safety of operations
 - 3.5 Load characteristics are taken into account to ensure appropriate loading and unloading procedures are followed
 - 3.6 Hazardous cargo is identified and relevant procedures are taken into account when planning and conducting work
- 4 Safely move load**
- 4.1 Crane is operated using smooth and controlled movements
 - 4.2 Manoeuvres are within crane limits and in line with manufacturer specifications
 - 4.3 Load is moved ensuring no injury to personnel or damage to crane or cargo
 - 4.4 Continuous communication is maintained with personnel assisting the operator in the load movement operations using

appropriate communications technology and procedures

4.5 In an incident or emergency, crane is immediately stopped and workplace emergency procedures are followed

4.6 Safety incidents and emergencies are reported in accordance with workplace procedures and regulatory requirements

5 Monitor controls

5.1 Crane controls are monitored and operated in accordance with manufacturer operating instructions

5.2 Control systems are confirmed and acted on in accordance with regulatory requirements, manufacturer guidelines and workplace procedures

5.3 Control faults are identified and reported in accordance with workplace guidelines

6 Stop, shut down and secure equipment

6.1 Crane is brought to a controlled halt within manufacturer guidelines and is shut down without injury to personnel or damage to equipment, loads or facilities in accordance with workplace procedures

6.2 Crane is secured after operations in accordance with manufacturer instructions and workplace procedures

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.

Non-essential conditions can be found in the Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is equivalent to TLID3044A Shift loads using cranes.

Links

Companion Volume implementation guides are found in VETNet -

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