



Australian Government

TLID3047 Shift loads using ship mounted crane

Release: 1

TLID3047 Shift loads using ship mounted crane

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 ship cranes in accordance with workplace and regulatory requirements as part of work activities in the stevedoring, transport, distribution and allied industries.

It includes planning work for the prevailing working conditions; using controls and operating systems to manage operating the crane; locating load and identifying load characteristics; safely moving load; monitoring controls; and stopping, shutting down and securing crane after completing 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 current working conditions

PERFORMANCE CRITERIA

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

- 1.1 Crane movement areas are assessed to ensure they are clear of personnel and other obstructions and hazards
- 1.2 Traffic flow and work area conditions in proximity of load landing area are assessed to ensure safety of personnel, and to ensure there is no damage to equipment, loads and facilities

- 1.3 Load characteristics are taken into account to ensure appropriate attachments/gear are used to move load
- 1.4 Hazards are identified, risks are assessed and control measures are implemented
- 1.5 Occurrences in work area that may impact on safety and efficiency of operations are reported to appropriate personnel
- 2 Check controls and crane operating systems**
 - 2.1 Crane is prepared for operation in accordance with workplace procedures
 - 2.2 Relevant aspects of Marine Orders are explained and applied
 - 2.3 Crane is started in accordance with manufacturer guidelines and workplace procedures
 - 2.4 Radio communication is confirmed with personnel assisting operator in load shifting
 - 2.5 Instruments and gauges are monitored during start-up and operations to ensure operation is in accordance with manufacturer specifications and workplace/regulatory safety requirements
 - 2.6 Crane movements are tested in a trial run over water if possible
 - 2.7 Faults or damage to crane are immediately reported to appropriate personnel
- 3 Identify load characteristics**
 - 3.1 Load weight and dimensions are confirmed to ensure they fall within crane capacity
 - 3.2 Loading and unloading plans are followed to ensure efficiency and safety of operations
 - 3.3 Load characteristics are taken into account to ensure appropriate loading and unloading procedures are followed
 - 3.4 Hazardous cargo is identified and relevant procedures are taken into account when planning and conducting work
 - 3.5 Non routine cargo lifts are identified and appropriate lifting methods and equipment are arranged
- 4 Safely move load**
 - 4.1 Crane is operated using smooth and controlled movements, and allowances are made for any vessel trim or list movements during load transfer

- 4.2 Crane movements are efficiently managed to control block or load swing
- 4.3 In sudden ship movement or excessive trim or list, warnings are immediately communicated to personnel
- 4.4 Simultaneous crane operations are planned as required and controlled appropriately in accordance with relevant procedures
- 4.5 Continuous communication is maintained with personnel assisting operator with load movement operations using appropriate communications technology and procedures
- 4.6 Wharf and vessel work area conditions are constantly assessed and anticipated to ensure crane movement areas are clear of personnel and other obstructions
- 4.7 In a safety incident or emergency, crane is immediately stopped and workplace emergency procedures are followed
- 4.8 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 operating instructions
- 5.2 Control systems are explained 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 in accordance with operating 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 operating 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 TLID3047A Shift loads using ship mounted crane.

Links

Companion Volume implementation guides are found in VETNet -

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