



Australian Government

TLID0010 Shift loads using ship mounted crane

Release: 1

TLID0010 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 mounted crane in accordance with workplace procedures and regulatory requirements as part of work activities in the stevedoring, transport, distribution and allied industries.

It includes planning work for working condition, operating the ship mounted crane, locating load and identifying load characteristics, safely moving load, monitoring controls, and shutting down and securing crane after 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

Stevedore sector.

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Prepare work for 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 in proximity of load landing area are assessed and adjusted to allow for safe operation

- 1.2 Load characteristics are taken into account to ensure appropriate attachments/gear are used to move load in accordance with lift plan
 - 1.3 Hazards are identified, risks are assessed and control measures are implemented
 - 1.4 Occurrences in work area that may impact on safety and efficiency of operations are reported to relevant personnel in accordance with workplace procedures
 - 1.5 Ship mounted crane is inspected and configured in accordance with manufacturer specifications and Marine Orders
 - 1.6 Pre-operational checks are conducted in accordance with manufacturer specifications and workplace procedures
- 2 **Operate the ship mounted crane**
 - 2.1 Ship mounted crane is started and operated in accordance with manufacturer specifications and workplace procedures
 - 2.2 Communication is confirmed with relevant personnel
 - 2.3 Instruments and gauges are monitored to ensure operation is within manufacturer specifications and workplace procedures
 - 2.4 Crane functions are tested in accordance with workplace procedures
 - 2.5 Faults or damage to crane are immediately reported to relevant personnel in accordance with workplace procedures
- 3 **Identify load characteristics**
 - 3.1 Working load limit (WLL) of gantry equipment is identified and communicated to relevant personnel
 - 3.2 Load weight and dimensions are confirmed to ensure they are within ship mounted crane capacity
 - 3.3 Loading and unloading plans are followed to ensure efficiency and safety of operations
 - 3.4 Load and environmental conditions are assessed to ensure appropriate loading and unloading procedures are followed
 - 3.5 Hazardous cargo is identified and relevant procedures are taken into account when planning and conducting

		work
4 Operate ship mounted crane to 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	Unexpected ship movement is communicated to relevant personnel in accordance with workplace procedures
	4.3	Simultaneous crane operations are planned and controlled appropriately in accordance with workplace procedures
	4.4	Communication is maintained with relevant personnel
	4.5	Work area conditions are constantly assessed to ensure crane movement areas are clear of personnel and other obstructions
	4.6	Crane is immediately stopped, and workplace procedures are followed, in the event of an incident or emergency
	4.7	Crane controls are monitored and operated in accordance with manufacturer specifications
	4.8	Ship mounted crane control faults are identified and reported in accordance with workplace procedures
5 Shut down and secure equipment	5.1	Ship mounted crane is shut down in accordance with manufacturer specifications and workplace procedures
	5.2	Crane is secured after operations in accordance with 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.

Unit Mapping Information

This unit replaces and is equivalent to TLID3047 Shift loads using ship mounted crane.

Links

Companion Volume Implementation Guides are found in VETNet -

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

Assessment Requirements for TLID0010 Shift loads using ship mounted crane

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Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria on at least one occasion and include:

- applying precautions and required action to minimise, control or eliminate identified hazards
- applying relevant legislation, Marine Orders and workplace procedures
- communicating effectively with others
- following operational instructions
- identifying and correctly using relevant equipment
- interpreting and following relevant instructions, procedures, information and signs
- modifying activities depending on operational contingencies, risk situations and environments
- monitoring performance of crane and its equipment, and taking appropriate action as required
- operating and adapting to differences in equipment in accordance with workplace procedures
- receiving, acknowledging and sending messages using communications methods
- reporting identified problems, faults or malfunctions in accordance with workplace procedures
- using personal protective equipment (PPE) in accordance with workplace procedures
- working collaboratively with others.

Knowledge Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria and include knowledge of:

- Australian and international codes and regulations relevant to using ship mounted cranes to shift loads, including Marine Orders
- problems that may occur and appropriate actions that can be taken
- relevant safety codes of practice and emergency response procedures
- relevant work health and safety (WHS)/occupational health and safety (OHS) procedures
- types of ship mounted cranes used to shift loads in terminals/wharves
- working load limit (WLL) of ship mounted cranes
- workplace procedures and policies for using ship mounted cranes to shift loads
- workplace procedures for simultaneous crane and heavy lift operations.

Assessment Conditions

Assessors must hold credentials specified within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must satisfy the Principles of Assessment and Rules of Evidence and all regulatory requirements included within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must occur in workplace operational situations where it is appropriate to do so; where this is not appropriate, assessment must occur in simulated workplace operational situations that replicate workplace conditions, including controlled or open environments, exposed conditions and limited or restricted spaces.

Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.

Resources for assessment must include:

- relevant materials, tools, ship mounted crane, equipment and PPE
- applicable documentation, including workplace procedures, regulations, codes of practice and operation manuals.

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