



Australian Government

TLID3036 Lift and move load using a mobile crane

Release: 2

TLID3036 Lift and move load using a mobile crane

Modification History

Release 2. This is the second release of this unit of competency in the TLI Transport and Logistics Training Package.

- Minor changes to unit Application
- Minor changes to Performance Criteria
- Minor changes to Performance Evidence
- Minor changes to Knowledge Evidence
- Minor changes to Assessment Conditions.

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 lift and move a load using a mobile crane.

It includes operating a non-slewing or slewing mobile crane to complete job requirements, monitoring lift conditions, implementing shutdown procedures, packing up crane after operations and completing all required job records.

People achieving competence in this unit will need to fulfil the applicable state or territory legislated high-risk work licence requirements and to comply with relevant codes of practice and guidelines for mobile crane operations.

Work is performed with limited supervision and duty of care responsibility for self and others in achieving the prescribed outcomes.

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.

PERFORMANCE CRITERIA

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

1 Operate mobile crane

- 1.1 Job hazards are identified and required actions taken to minimise, control or eliminate identified hazards
- 1.2 Ascent and descent to and from crane is completed in accordance with relevant codes of practice and workplace procedures
- 1.3 Required signals are correctly given, interpreted and followed in accordance with appropriate workplace procedures
- 1.4 Boom is positioned to ensure load to be lifted is plumbed under hook
- 1.5 Load is hoisted and lowered into position using crane movements in accordance with appropriate workplace procedures
- 1.6 Crane controls are operated smoothly
- 1.7 Crane is shut down and secured during periods of non-operation in accordance with manufacturer specifications and workplace procedures

2 Monitor lift conditions

- 2.1 Load is constantly monitored to ensure load and structural stability
- 2.2 Conditions that may affect continuing stability of crane are identified and monitored
- 2.3 Unplanned situations are responded to in accordance with workplace procedures in a manner that minimises risk to personnel and equipment
- 2.4 Dogger is advised of new information that affects lift
- 2.5 Necessary changes to job plan are discussed and confirmed with rest of crew
- 2.6 Advice is sought from supervisor where there is doubt about correct response to unanticipated conditions or conflict with customer request
- 2.7 Supervisor and/or allocator is advised of concerns about

- completing job within timeframe
- 3 Implement shutdown procedures**
 - 3.1** Relevant motion locks and brakes are applied
 - 3.2** Crane is shut down using correct sequence of procedures in accordance with manufacturer specifications and workplace procedures
 - 3.3** Routine post-operational equipment checks are carried out in accordance with manufacturer specifications
 - 4 Pack up crane**
 - 4.1** Crane is de-rigged with other crane personnel in accordance with manufacturer instructions
 - 4.2** All lifting equipment and crane components are checked in consultation with crane personnel for signs of deterioration or damage in accordance with appropriate Australian Standard
 - 4.3** Damaged or worn equipment is segregated and reported to authorised person for testing, repair and destruction (where appropriate)
 - 4.4** Crane and equipment are correctly stowed and secured in accordance with manufacturer instructions and appropriate Australian Standard
 - 5 Complete job records**
 - 5.1** Customer feedback is sought about satisfaction with completed job, and areas of concern are reported in accordance with workplace procedures
 - 5.2** Customer signature on job completion documentation is obtained
 - 5.3** Required workplace records are updated accurately and promptly, and processed 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.

Non-essential conditions can be found in the TLI Transport and Logistics Training Package

Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is equivalent to TLID3036A Lift and move load using a mobile 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 TLID3036 Lift and move load using a mobile crane

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Performance Evidence

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

- applying precautions and required actions to minimise, control or eliminate identified hazards
- applying relevant high-risk work legislation and workplace procedures
- applying risk assessment and management procedures
- calculating safe working load (SWL) and working load limit (WLL)
- communicating and working effectively with others
- completing relevant documentation
- effectively completing pre-operational checks, positioning, stabilising, set-up and post-operational checks of mobile crane
- modifying activities depending on operational contingencies, risk situations and environments
- monitoring performance of equipment
- monitoring work activities in terms of planned schedule
- operating and adapting to differences in equipment in accordance with workplace operating procedures
- operating crane, including all functions to their maximum extension, in lifting and moving a load
- reading and interpreting relevant instructions, procedures, information and signs
- reporting and/or rectifying identified problems, faults or malfunctions promptly in accordance with regulatory requirements and workplace procedures
- using load charts to determine crane limitations and/or required crane set-up
- using mathematical procedures to determine load weight and lifting equipment required for lift.

Knowledge Evidence

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

- communications systems used during a lift
- hazard management, using the principle of hierarchy of control
- high-risk work licence requirements
- mobile crane applications, capacities, configurations, safety hazards and control mechanisms
- manufacturer specifications and instructions
- operational work systems and equipment
- problems that may occur during a lift, and associated actions that can be taken to address these problems
- relevant road rules, regulations, permit and licence requirements for mobile crane operation
- relevant work health and safety (WHS)/occupational health and safety (OHS) and environmental procedures and regulations
- risks and hazards involved in mobile crane operations, and associated actions that can be taken to eliminate or minimise the risk
- workplace procedures for operating a mobile crane at a worksite.

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.

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 access to:

- a range of relevant exercises, case studies and/or simulations
- mobile crane, of the type currently used in industry
- relevant and appropriate materials, tools, equipment and personal protective equipment (PPE) currently used in industry
- applicable documentation, including legislation, regulations, codes of practice, workplace procedures and operation manuals.

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