



Australian Government

TLID4032 Plan and conduct specialised lift

Release: 1

TLID4032 Plan and conduct specialised lift

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 plan and conduct specialised lift by a mobile crane (excluding demolition work).

It involves a lift that may be specialised in terms of job and equipment requirements, load qualities, or critical aspects of lift location/s.

It includes inspecting site, planning lift, setting up lift, working effectively in a team, lifting and moving load, and following up on a job.

Work must be carried out in accordance with high risk work licence/permit requirements and relevant state/territory authority regulations for specialised mobile crane operations.

Work is performed under general supervision. It involves the application of some judgement and routine principles and procedures for planning and conducting of specialised lifts in a variety of operational contexts.

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 Inspect site

- 1.1 Site is inspected as required with other relevant personnel, to assess job requirements
- 1.2 All necessary parameters are measured to ensure accuracy of calculations
- 1.3 Hazards are identified through inspection of site and load, and required action is taken to minimise, control or eliminate identified hazards
- 1.4 Additional information about load and possible hazards is sought from customer and expert personnel, as required
- 1.5 Special site requirements are identified

2 Plan lift

- 2.1 Operation plan is developed in consultation with other relevant personnel, including hazard prevention/control measures in accordance with workplace procedures, applicable Australian Standards and codes of practice
- 2.2 Approval to carry out lift is obtained from appropriate statutory authority, as required
- 2.3 Multiple crane lifts are planned, as required, to encompass determination of types of cranes suitable for use and an assessment of load share to be carried by each crane
- 2.4 Crane load chart is interpreted and information on permissible loads, radii, weights, boom and jib are taken into account in planning job
- 2.5 Safe working load (SWL) or working load limit (WLL) is calculated
- 2.6 Appropriate drawings and simulations are created to check feasibility of planned operations
- 2.7 Information from previous lifts is used in developing operational plan
- 2.8 Range of alternatives is considered to ensure effective and safe lift
- 2.9 Unsolicited, irrelevant information is disregarded to focus on task at hand
- 2.10 Need for additional/specialised equipment is ascertained and arrangements are made for collection/delivery to site

- 2.11 Communications system is determined and all team members are briefed on its use when conducting lift
- 3 Set up lift**
- 3.1 Site measurements and SWL/WLL are checked to verify accuracy
- 3.2 Operating and emergency controls are checked to ensure crane is in safe working order
- 3.3 Appropriate personal protective equipment is selected and worn in accordance with manufacturer specifications and site requirements
- 3.4 Site is isolated as required and assistance is sought to ensure public safety as required
- 3.5 Other personnel on site are directed, as required to ensure risks to personnel and equipment are minimised
- 3.6 Variables that affect operation predictability are eliminated wherever possible
- 4 Work effectively in a team**
- 4.1 Consultation with all team members is sought in developing operational plan
- 4.2 Ideas are discussed and evaluated with team members to determine viability and to reach consensus on an effective plan
- 4.3 Individual roles and responsibilities are clarified and agreed
- 4.4 Other team members are assisted as required, to ensure operation can be completed safely and efficiently
- 5 Lift and move load**
- 5.1 Nominated authorised person is recognised as being in control and instructions are followed
- 5.2 Test runs are conducted as required to ensure a safe lift
- 5.3 Load is hoisted and lowered into position using crane movements in accordance with the appropriate Australian Standard
- 5.4 Danger is anticipated by monitoring crane and load, and instruction to stop operation is given, when there are concerns lift is not proceeding as planned
- 5.5 Potential impact of change in one area of operation on lift as a whole, is recognised

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| | 5.6 | In unanticipated situations, contribution is made to developing alternative operational plan |
| 6 Follow up on job | 6.1 | Specialised equipment is checked and re-stored in accordance with workplace procedures |
| | 6.2 | Operation is reviewed in consultation with relevant personnel and contribution is made to recommendations for review of procedures as required |
| | 6.3 | Need for further after-job debriefing or counselling is recognised and appropriate action is taken |
| | 6.4 | Records are completed promptly 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 Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is equivalent to TLID4032A Plan and conduct specialised lift.

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 TLID4032 Plan and conduct specialised lift

Modification History

Release 1. This is the first release of this unit of competency in the TLI Transport and Logistics Training Package.

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 and workplace procedures
- calculating safe working load (SWL) or working load limit (WLL)
- communicating and working effectively with others
- completing relevant documentation
- developing contingency plans
- ensuring use of required personal protective equipment conforms to industry and work health and safety (WHS)/occupational health and safety (OHS) standards
- interpreting and following operational instructions and prioritising work
- modifying activities depending on operational contingencies, risk situations and environments
- monitoring work activities in terms of planned schedule
- operating and adapt to differences in equipment in accordance with workplace operating procedures
- planning own work, predicting consequences and identifying improvements
- prioritising and multi-tasking work
- providing leadership and working collaboratively with others
- reading and interpreting relevant instructions, procedures, information, technical data, manuals and signs
- reporting and/or rectifying problems promptly, in accordance with regulatory requirements and workplace procedures
- working systematically with required attention to detail without injury to self or others, or damage to goods or equipment.

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:

- calculations for SWL or WLL
- focus of operation of work systems and equipment
- mobile crane applications, capacities, configurations, safety hazards and control mechanisms
- hazard management, consistent with the principle of hierarchy of control
- high risk work licence requirements
- problems that may arise when planning and supervising a specialised lift using a mobile crane and actions that should be taken to prevent or solve these problems
- relevant agreements, codes of practice or other legislative requirements
- relevant road rules, regulations, permit and licence requirements for mobile crane operation
- relevant WHS/OHS and environmental procedures and regulations
- safe work method statement
- workplace procedures for crane crews
- workplace procedures for setting up and rigging a mobile crane at a worksite.

Assessment Conditions

As a minimum, assessors must satisfy applicable regulatory requirements, which include requirements in the *Standards for Registered Training Organisations* current at the time of assessment.

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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 include:

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

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