



Australian Government

TLIB0045 Plan a mobile crane lift operation

Release: 1

TLIB0045 Plan a mobile crane lift operation

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 a mobile crane lift operation prior to positioning and setting up a mobile crane.

It includes obtaining and confirming job instructions and work specifications, coordinating the loading of gear and equipment, assessing job requirements of work areas, designing operational plan and setting up work area.

Work is performed with limited or minimum supervision.

People achieving competence in this unit must hold the relevant high risk work licence prior to undertaking mobile crane operation, dogging or rigging work.

Work must be carried out in compliance with the relevant state/territory authority mobile crane operations licence/permit requirements and regulations, codes of practice, rules and/or guidelines.

Pre-requisite Unit

Not applicable.

Competency Field

B – Equipment Checking and Maintenance

Unit Sector

Mobile Crane.

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

PERFORMANCE CRITERIA

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

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| 1 | Confirm job instructions/work specifications prior to travelling to worksite | 1.1 | Job instructions are obtained and checked to ensure specifications include all necessary information |
| | | 1.2 | Operation plan, safe work method statement and other work specifications are interpreted and clarification is sought from relevant personnel |
| | | 1.3 | Permits are identified and interpreted in accordance with operation plan and workplace procedures |
| | | 1.4 | Engineering drawings are read and interpreted for site hazards including suspended slab, bearing ground pressure overhead and underground services |
| | | 1.5 | Utilities authority requirements are confirmed in accordance with operation plan and workplace procedures |
| | | 1.6 | Route access is confirmed in accordance with permit and operation plan |
| 2 | Coordinate loading of gear and equipment | 2.1 | Specific equipment for job is identified, selected and obtained in accordance with operation plan and workplace procedures |
| | | 2.2 | Equipment is properly packed and secured in accordance with workplace procedures to ensure injury and damage are avoided during transportation |
| 3 | Assess job requirements and work area | 3.1 | Site access and egress is followed in accordance with operation plan and workplace procedures |
| | | 3.2 | Hazards are identified and risks are eliminated or control measures selected and implemented in accordance with workplace procedures |
| | | 3.3 | Weight and dimensions of load are assessed and confirmed in consultation with relevant personnel to ensure job is within limits of crane capacity |

	3.4	Lift safety or feasibility concerns are discussed with relevant personnel in accordance with workplace procedures
	3.5	Worksite area is inspected and lift parameters are confirmed with operation plan
	3.6	Area is assessed to ensure there is sufficient space to cite the crane and conduct lift
	3.7	Need to travel and/or traverse mobile crane is assessed and route to be travelled is planned
4	Confirm operational plan	
	4.1	Operational plan is confirmed to include hazard identification, risk elimination or control measures and safety procedures in accordance with applicable work health and safety (WHS)/ occupational health and safety (OHS) legislation, Australian Standards, codes of practice and equipment manufacturer specifications
	4.2	Crane load chart for crane configuration is confirmed in accordance with operational plan and equipment manufacturer specifications
	4.3	Job requirements, customer priorities, and workplace rules and procedures are taken into account in operation plan
	4.4	Operational plan is discussed and confirmed with relevant personnel
	4.5	Lift plan details are documented as required

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 but is not equivalent to TLIB3012 Plan job and set up work areas.

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 TLIB0045 Plan a mobile crane lift operation

Modification History

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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 actions to minimise, control or eliminate identified hazards
- applying specific crane legislation and workplace procedures including safe work method statements
- communicating effectively and working collaboratively with others with required attention to detail without injury to self or others, or damage to goods or equipment
- completing relevant documentation
- interpreting and following operational instructions and prioritising work
- modifying activities depending on operational contingencies, risk situations and environments
- monitoring condition of equipment during setting-up processes and taking appropriate actions
- monitoring work activities in terms of planned schedule
- operating and adapting to differences in equipment in accordance with workplace procedures
- developing a lift plan
- reading, interpreting and following relevant instructions, workplace procedures, information and signs
- reporting and/or rectifying identified problems, faults or malfunctions promptly in accordance with regulatory requirements and workplace procedures
- selecting and using appropriate personal protective equipment (PPE) conforming to industry and work health and safety (WHS)/occupational health and safety (OHS) standards.

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:

- application of relevant agreements, codes of practice or other legislative requirements
- guidelines for the safe use of plant and lifting equipment
- hazard management strategies consistent with the principle of hierarchy of control (with elimination, substitution, isolation and engineering control measures being selected before safe working practices and PPE
- identification and correct use of equipment, processes and procedures

- mobile crane applications, capacities, configurations, hazards and risk controls
- operational work systems and equipment
- prioritising and multi-tasking work
- road rules, regulations, permit and licence requirements
- WHS/OHS and environmental procedures and regulations
- workplace procedures for:
 - crane crews
 - planning mobile crane jobs
 - setting up work areas.

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 and involve the controlled movement of equipment, goods, materials and vehicular traffic.

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
- applicable documentation including workplace procedures, regulations, codes of practice and operation manuals including relevant:
 - state/territory regulations and licence/permit requirements for mobile cranes
 - state/territory road rules
 - state/territory WHS/OHS legislation
 - state/territory environmental protection legislation
- relevant materials, tools, equipment and PPE currently used in industry.

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