



Australian Government

TLIB0048 Prepare a mobile crane for lift

Release: 1

TLIB0048 Prepare a mobile crane for 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 prepare a mobile crane for a lift.

It includes the systematic positioning and stabilisation of the crane and its assembly prior to lift in a variety of operational contexts.

Work is performed with limited or minimum supervision.

People achieving competence in this unit must hold the relevant high risk work (HRW) 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.

1 **Position and stabilise crane**

PERFORMANCE CRITERIA

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

1.1 Ground is checked to ensure it is firm enough to bear the load

		1.2	Mobile crane is directed to position systematically in accordance with operation plan, applicable Australian Standards, codes of practice and manufacturer specifications to ensure safe operation
		1.3	Appropriate plates or packing are correctly used to adequately distribute load
		1.4	Outriggers and stabilisers are correctly deployed and positioned in accordance with manufacturer instructions, appropriate Australian Standard and other relevant statutory regulations
		1.5	Outrigger packing is checked for adequacy prior to and after lift is taken
2	Confirm crane for lift	2.1	Reeving of the block is confirmed with a competent person and in accordance with manufacturer specifications
		2.2	Counterweights are confirmed in accordance with manufacturer specifications
		2.3	Attachments are confirmed in accordance with manufacturer instructions
		2.4	Competent person is consulted and other personnel are assisted as necessary to ensure efficient and safe assembly and set-up of crane
		2.5	Straight fly jibs and luffing fly jibs are confirmed in accordance with manufacturer instructions

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 TLIB3011 Set up and rig crane for 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 TLIB0048 Prepare a mobile crane for lift

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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 risk
- applying specific crane state/territory legislation and workplace procedures
- communicating effectively and working collaboratively with others
- completing relevant documentation
- confirming correct fitting fly jibs and attachments in accordance with workplace procedures
- interpreting and following operational instructions and prioritising work
- monitoring condition of equipment
- monitoring work activities in terms of operation planned schedule and modifying activities depending on operational contingencies, hazardous situations and environments
- operating and adapting to differences in equipment in accordance with workplace procedures
- positioning mobile crane systematically in accordance with workplace procedures
- 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
- 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:

- risk management strategies consistent with the principle of hierarchy of risk control, including elimination, substitution, isolation and engineering control measures being selected before safe working practices and PPE
- mobile crane applications, capacities, configurations, hazards and control mechanisms
- operational work systems and equipment
- procedures for:

- crane crews
- fitting attachments and fly jibs
- identifying and correctly using equipment, processes and procedures
- setting up a mobile crane at a worksite
- systematic positioning of mobile crane
- stabilisation of mobile crane
- relevant guidelines, codes of practice or other legislative requirements
- relevant regulations, permit and licence requirements for mobile crane operations and rigging mobile cranes
- relevant WHS/OHS and environmental procedures and regulations.

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 a simulated workplace operational situation that replicates 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 pertaining to mobile cranes
 - state/territory road rules
 - state/territory WHS/OHS legislation
 - state/territory environmental protection legislation
- relevant materials, tools and equipment
- PPE, including:
 - gloves
 - safety headwear and footwear
 - sunscreen, sunglasses and safety glasses
 - two-way radios
 - high visibility clothing.

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