



Australian Government

TLIB3011 Set up and rig crane for lift

Release: 1

TLIB3011 Set up and rig 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 set up and rig 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 must be carried out in compliance with the relevant state/territory authority mobile crane operations licence/permit requirements and regulations.

Work is performed with limited or minimum supervision, with limited accountability and 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

B – Equipment Checking and Maintenance

Unit Sector

Not applicable.

Elements and Performance Criteria

ELEMENTS	PERFORMANCE CRITERIA
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
1 Position and stabilise crane	1.1 Crane is directed to position in accordance with job plan, applicable Australian Standards, codes of practice and manufacturer specifications to ensure safe operation 1.2 Ground is checked to ensure it is firm enough to bear the load 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 Assemble crane

- 2.1 Block is reeved in accordance with manufacturer instructions
- 2.2 Counterweights are installed in accordance with manufacturer specifications
- 2.3 Attachments are set up in accordance with manufacturer instructions
- 2.4 Qualified rigger 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 assembled and fitted 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 Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is equivalent to TLIB3011A 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 TLIB3011 Set up and rig crane for lift

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, performance criteria on at least one occasion and include:

- applying precautions and required action to minimise, control or eliminate identified hazards
- applying procedures for fitting attachments and fly jibs
- applying relevant legislation and workplace procedures
- communicating effectively with others
- completing relevant documentation
- dealing with internal and external customers
- fitting fly jibs and attachments
- interpreting and following operational instructions and prioritising work
- monitoring work activities in terms of planned schedule and modifying activities depending on operational contingencies, risk situations and environments
- monitoring condition of equipment
- operating and adapting to differences in equipment in accordance with standard operating procedures
- operating electronic communications equipment to required protocol
- reading, interpreting and following relevant instructions, 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 conforming to industry and work health and safety (WHS)/occupational health and safety (OHS) standards
- working collaboratively with others
- 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, performance criteria and include knowledge of:

- company work procedures for setting up and rigging a mobile crane at a worksite
- 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 personal protective equipment)
- mobile crane applications, capacities, configurations, safety hazards and control mechanisms
- operational procedures for crane crews
- operational work systems and equipment
- procedures for fitting attachments and fly jibs
- procedures for identifying and correctly using equipment, processes and procedures
- relevant agreements, codes of practice or other legislative requirements
- relevant WHS/OHS and environmental procedures and regulations
- relevant road rules, regulations, permit and licence requirements for mobile crane operations and rigging mobile cranes.

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 of setting up and rigging a mobile crane for a lift 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 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 include:

- 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
- personal protective clothing and equipment, including:
 - gloves
 - safety headwear and footwear
 - sunscreen, sunglasses and safety glasses
 - two-way radios
 - high visibility clothing.

Links

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