



Australian Government

Department of Education, Employment and Workplace Relations

TLID3031A Rig load

Release: 1

TLID3031A Rig load

Modification History

Not Applicable

Unit Descriptor

Unit Descriptor

This unit involves the skills and knowledge required to prepare and rig all types of loads in preparation for lifting by a crane, including preparing for the transfer of a load, assessing lifting requirements, securing a load, and detaching a load. Licensing, legislative, regulatory or certification requirements are applicable to this unit.

Application of the Unit

Application of the Unit

Work must be carried out in compliance with the licence/permit requirements and regulations of the relevant state/territory authorities pertaining to the rigging of loads during mobile crane operations.

Work is performed with general supervision, with limited accountability and responsibility for self and others in achieving the prescribed outcomes. It involves the application of routine principles and procedures to the rigging of loads during mobile crane operations in a variety of operational contexts.

Licensing/Regulatory Information

Refer to Unit Descriptor

Pre-Requisites

Not Applicable

Employability Skills Information

Employability Skills

This unit contains employability skills.

Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a unit of competency.

Performance criteria describe the required performance needed to demonstrate achievement of the element. Assessment of performance is to be consistent with the evidence guide.

Elements and Performance Criteria

ELEMENT

PERFORMANCE CRITERIA

- | | |
|---------------------------------------|---|
| 1 Prepare for transfer of load | <ul style="list-style-type: none">1.1 Working area is prepared and maintained in accordance with national standards and safety codes and workplace operating procedures1.2 Unsafe work practices and/or faulty equipment are reported in accordance with workplace procedures1.3 Correct personal protective equipment is identified and worn |
| 2 Assess lifting requirements | <ul style="list-style-type: none">2.1 Work operations plan is examined and requirements for the lift identified including job method and sequence, control measures and safety procedures2.2 Coordination requirements with other site personnel are confirmed2.3 The mass, dimensions and centre of gravity of the load are determined2.4 Appropriate lifting gear/equipment/packing, including slings, ropes, shackles, eye bolts, spreaders etc. is selected (from safety charts and SWL/WLL tags), assembled and checked for serviceability2.5 Damaged or worn items are tagged, rejected and reported to appropriate personnel for follow-up action |
| 3 Secure load | <ul style="list-style-type: none">3.1 Lifting/anchorage points are correctly identified3.2 Lifting gear/equipment/packing is connected to the load, and load is secured to lifting device in accordance with workplace and manufacturers specifications, guidelines and regulatory requirements3.3 Load is lifted and suspended off the lifting plane and checked to ensure it is appropriately rigged and secured3.4 Corrective action is undertaken where preliminary lift assessment reveals unacceptable operational situation3.5 Tag lines are fixed to load in accordance with work operation plan and/or, in consultation with other personnel, where required due to wind conditions and site hazards/obstacles |
| 4 Detach load | <ul style="list-style-type: none">4.1 Slings attachments are released from load ensuring no injury to personnel or damage to workplace operating procedures4.2 Damage to load/site is identified and reported in accordance with workplace procedures4.3 Lifting gear/equipment/packing is maintained and stored in accordance with workplace and manufacturers specifications, guidelines and regulatory requirements |

Required Skills and Knowledge

REQUIRED KNOWLEDGE AND SKILLS

This describes the essential knowledge and skills and their level required for this unit.

Required knowledge:

- Relevant road rules, regulations, permit and licence requirements pertaining to rigging of loads during mobile crane operations
- Relevant OH&S and environmental procedures and regulations
- Mobile crane applications, capacities, configurations, safety hazards and control mechanisms
- Operational procedures for crane crews
- Requirements for Safe Working Load (SWL) or Working Load Limit (WLL)
- Prioritising and multi-tasking work
- Workplace procedures concerning the rigging of loads during mobile crane operations
- Problems that may arise when rigging a load during mobile crane operations and actions that should be taken to prevent or solve them
- Focus of operation of work systems and equipment

Required skills:

- Communicate effectively with others when rigging a load during mobile crane operations
- Read and interpret instructions, procedures, information and signs relevant to the rigging of a load during mobile crane operations
- Interpret and follow operational instructions and prioritise work
- Operate electronic communication equipment to required protocol
- Work collaboratively with others when rigging a load during mobile crane operations
- Adapt appropriately to cultural differences in the workplace, including modes of behaviour and interactions with others
- Promptly report and/or rectify any identified problems, faults or malfunctions that may occur when rigging a load during mobile crane operations in accordance with regulatory requirements and workplace procedures
- Implement contingency plans for unexpected situations that may arise when rigging a load during mobile crane operations
- Apply precautions and required action to minimise, control or eliminate hazards that may exist during the rigging of a load as part of mobile crane operations
- Monitor work activities in terms of planned schedule
- Modify activities depending on differing operational contingencies, risk situations and environments
- Apply fatigue management knowledge and techniques
- Work systematically with required attention to detail without injury to self or others, or

Required skills:

damage to goods or equipment

- Identify and correctly use equipment, processes and procedures
- Operate and adapt to differences in equipment in accordance with standard operating procedures
- Select and use required personal protective equipment conforming to industry and OH&S standards
- Monitor condition and performance of gear and equipment and take appropriate action where required
- Service gear and equipment in terms of maintenance schedule and standard operating procedures

Evidence Guide

EVIDENCE GUIDE

The evidence guide provides advice on assessment and must be read in conjunction with the performance criteria, required knowledge and skills, the range statement and the assessment guidelines for this Training Package.

Critical aspects for assessment and evidence required to demonstrate competency in this unit

- The evidence required to demonstrate competency in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria of this unit and include demonstration of applying:
 - the underpinning knowledge and skills
 - relevant legislation and workplace procedures
 - other relevant aspects of the range statement

Context of and specific resources for assessment

- Performance is demonstrated consistently over a period of time and in a suitable range of contexts
- Resources for assessment include:
 - a range of relevant exercises, case studies and/or other simulated practical and knowledge assessment, and/or
 - access to an appropriate range of relevant operational situations in the workplace
- In both real and simulated environments, access is required to:
 - relevant and appropriate materials and equipment, and
 - applicable documentation including workplace procedures, regulations, codes of practice and

EVIDENCE GUIDE

	operation manuals
Method of assessment	• Assessment of this unit must be undertaken by a registered training organisation • As a minimum, assessment of knowledge must be conducted through appropriate written/oral tests • Practical assessment must occur: • through activities in an appropriately simulated environment at the registered training organisation, and/or • in an appropriate range of situations in the workplace

Range Statement

RANGE STATEMENT

The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance.

Operations may be conducted:	• day or night • in a variety of weather conditions
Environment may include movement of:	• equipment • goods • materials • vehicular traffic
Customers may be:	• internal or external
Mobile crane may be involved in work in a range of industry sectors including:	• construction and demolition • manufacturing • waterfront • mining • primary industry • utilities (electricity, gas, water) • arboricultural • swimming pool • quarrying
Hazards may include:	• power lines • noise, light, energy sources • overhead service lines • surrounding buildings, structures, facilities • underground services

RANGE STATEMENT

- Hazard management is:
- obstructions
 - uneven or unstable ground and recently filled trenches
 - stationary and moving machinery and equipment
 - hazardous or dangerous materials
 - traffic hazards and congestion
 - 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
- Consultative processes may involve:
- other employees and supervisors
 - management
 - union representatives
 - clients
 - industrial relations and OH&S specialists
 - other professional or technical staff
- Loads to be shifted are:
- rigged and secured in accordance with workplace and regulatory standards/codes of practice
- Requirements for access and/or lift may include:
- site restrictions and procedures
 - authorities and permits
 - hours of operation
 - induction
 - slings, chains, nets, brackets and other specialised lifting equipment
 - noise restrictions
 - personal protective equipment
 - support trucks
 - additional gear and equipment
 - communications equipment
- Personal protective equipment may include:
- gloves
 - safety headwear and footwear
 - sunscreen, sunglasses and safety glasses
 - two-way radios
 - high visibility clothing
- Depending on the type of organisation concerned and the local terminology used, workplace procedures may include:
- company procedures
 - enterprise procedures
 - organisational procedures
 - established procedures
 - site procedures
- Documentation/records may include:
- operations manuals including load charts and crane and rigging manuals

RANGE STATEMENT

- Safe Working Load (SWL) and Working Load Limit (WLL)
 - lifting gear safety charts
 - induction documentation
 - competency standards and training materials
 - job specifications and procedures
 - manufacturers specifications
 - workplace operating procedures and policies
 - supplier and/or client instructions
 - communications technology equipment, oral, aural or signed communications
 - material safety data sheets
 - conditions of service, legislation and industrial agreements including:
 - workplace agreements and awards
 - occupational health and safety procedures
 - standards and certification requirements
 - quality assurance procedures
 - emergency procedures
- Applicable procedures and codes may include:
- relevant state/territory regulations and licence/permit requirements pertaining to mobile cranes
 - relevant state/territory road rules
 - relevant state/territory OH&S legislation
 - relevant state/territory fatigue management regulations
 - relevant state/territory environmental protection legislation

Unit Sector(s)

Not Applicable

Competency Field

Competency Field

D - Load Handling