



Australian Government

Department of Education, Employment and Workplace Relations

TLID3107C Rig load

Release: 1

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Modification History

Not applicable.

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.

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

Not applicable.

Pre-Requisites

Not applicable.

Employability Skills Information

The required outcomes described in this unit of competency contain applicable facets of Employability Skills. The Employability Skills Summary of the qualification in which this competency is packaged will assist in identifying employability skill requirements.

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

Elements and Performance Criteria

Element	Performance Criteria
1 Prepare for transfer of load	1.1 Working area is prepared and maintained in accordance with national standards and safety codes and workplace operating procedures 1.2 Unsafe work practices and/or faulty equipment are reported in accordance with workplace procedures 1.3 Correct personal protective equipment is identified and worn
2 Assess lifting requirements	2.1 Work operations plan is examined and requirements for the lift identified including job method and sequence, control measures and safety procedures 2.2 Coordination requirements with other site personnel are confirmed 2.3 The mass, dimensions and centre of gravity of the load are determined 2.4 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 serviceability 2.5 Damaged or worn items are tagged, rejected and reported to appropriate personnel for follow-up action
3 Secure load	3.1 Lifting/anchorage points are correctly identified 3.2 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 requirements 3.3 Load is lifted and suspended off the lifting plane and checked to ensure it is appropriately rigged and secured

3.4 Corrective action is undertaken where preliminary lift assessment reveals unacceptable operational situation

3.5 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

4.1 Slinging attachments are released from load ensuring no injury to personnel or damage to workplace operating procedures

4.2 Damage to load/site is identified and reported in accordance with workplace procedures

4.3 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 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

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 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/or equipment, and/or

applicable documentation including workplace procedures, regulations, codes of practice and 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 appropriately simulated activities 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 obstructions uneven or unstable ground and recently filled trenches stationary and moving machinery and equipment hazardous or dangerous materials traffic hazards and congestion

Hazard management is:	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

Documentation/records may include:

site procedures

operations manuals including load charts and crane and rigging manuals

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

D - Load Handling