



Australian Government

Department of Education, Employment and Workplace Relations

TLID4030A Supervise mobile crane operations

Release: 1

TLID4030A Supervise mobile crane operations

Modification History

Not Applicable

Unit Descriptor

Unit Descriptor

This unit involves the skills and knowledge required to supervise mobile crane operations, including implementing the operational plan for a mobile crane lift, directing operations, supporting crane personnel in their work, and negotiating and resolving site problems on request. 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 mobile crane operations.

Work is performed under general supervision. It involves the application of some judgement and routine principles and procedures to the supervision of mobile crane operations.

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 Implement operational plan	1.1 Checks are made that customer has fulfilled agreed obligations and required personnel and equipment are on site 1.2 Plan is implemented in accordance with legislative and workplace requirements 1.3 Check is made that hazards have been identified and hazard control strategies implemented
2 Direct operations	2.1 Customer is kept advised of any changes to operation method and any concerns are addressed promptly 2.2 Crane personnel are encouraged to provide input to the operation 2.3 In the event of unanticipated situations, alternative options are developed and discussed with site and crane personnel 2.4 Emergency situations are responded to in line with workplace procedures in a manner that minimises risk to personnel and equipment 2.5 Responsibilities of crane personnel are clarified throughout operation 2.6 Crane personnel are coordinated and directed to ensure safe and efficient operation
3 Support crane personnel	3.1 Assistance with rigging/operating duties is provided as necessary within legislative and site requirements 3.2 Additional equipment and personnel are arranged as necessary in line with legislative requirements 3.3 Facilities and amenities are arranged as necessary
4 Resolve site problems on request	4.1 Problem is clarified as far as possible prior to site visit to enable prioritising of work 4.2 Problem is assessed through on-site consultation with crane personnel 4.3 Customer's perspective on the problem is sought where relevant 4.4 Decision is made regarding appropriate alternative solutions to the problem, taking into account safety and workplace requirements and customer expectations 4.5 Action to be taken is agreed with crane personnel and customer 4.6 Agreed commitments are met in a timely manner and undertakings of others are followed up to ensure personnel and customer satisfaction with the outcome 4.7 Required workplace records are updated accurately, legibly and promptly

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 mobile crane operation
- Relevant OH&S and environmental procedures and regulations
- Mobile crane applications, capacities, configurations, safety hazards and control mechanisms
- Operational procedures for crane crews
- Prioritising and multi-tasking work
- Workplace procedures concerning the supervision of mobile crane operations at a work site
- Problems that may arise when supervising 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 supervising mobile crane operations
- Read and interpret instructions, procedures, information and signs relevant to the supervision of mobile crane operations
- Interpret and follow operational instructions and prioritise work
- Discuss and negotiate with clients and crew on issues related to the access to the site, setting up of the crane and the lift
- Complete documentation related to the supervision of mobile crane operations
- Operate electronic communication equipment to required protocol
- Provide leadership and work collaboratively with others when supervising 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 arise when supervising mobile crane operations in accordance with regulatory requirements and workplace procedures
- Plan and guide the work of others, including predicting consequences and identifying improvements
- Implement contingency plans for unexpected situations that may occur when supervising mobile crane operations
- Apply precautions and required action to minimise, control or eliminate hazards that may exist during the supervision of mobile crane operations
- Monitor work activities in terms of planned schedule

Required skills:

- Modify activities depending on differing operational contingencies, risk situations and environments
- Ensure the application of 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 direct the use of equipment, processes and procedures
- Operate and adapt to differences in equipment and operating environment in accordance with standard operating procedures
- Ensure the use of required personal protective equipment conforming to industry and OH&S standards
- Ensure the servicing of mobile crane 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

EVIDENCE GUIDE

	• 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 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

RANGE STATEMENT

	• 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
Mobile crane operations being supervised may include:	• set-up • access requirements • lift requirements of customer
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

RANGE STATEMENT

Documentation/records may include:

- site procedures
- site plans
- Safe Working Load (SWL) and Working Load Limit (WLL)
- operations manuals including load charts and crane and rigging manuals
- induction documentation
- competency standards and training materials
- job specifications and procedures
- manufacturers specifications
- workplace operating procedures and policies
- supplier and/or client instructions
- material safety data sheets
- communications technology equipment, oral, aural or signed communications
- personal and work area work procedures and practices
- 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
- equal opportunity, equal employment opportunity and affirmative action legislation
- Workplace Relations Act(s)

Unit Sector(s)

Not Applicable

Competency Field

Competency Field D - Load Handling