



Australian Government

Department of Education, Employment and Workplace Relations

TLID4008A Monitor crane operations

Release: 1

TLID4008A Monitor crane operations

Modification History

Not Applicable

Unit Descriptor

Unit Descriptor

This unit involves the skills and knowledge required to monitor crane operations in accordance with workplace procedures and regulatory requirements, including monitoring work performance and progress, monitoring personnel working in operational area, solving problems concerning crane operations and making decisions. 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 relevant regulations and workplace requirements concerning crane operations.

Work is performed under some supervision generally within a team environment. It involves the application of workplace procedures and regulatory requirements when monitoring crane operations as part of work activities in the stevedoring, transport, distribution and allied industries.

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 Monitor work performance and progress | <ul style="list-style-type: none">1.1 Work is performed in line with workplace requirements and objectives, ensuring safe work practices are maintained in accordance with statutory authority regulations, national and industry safety codes and workplace procedures1.2 Crane operations and compliance with operational procedures are monitored regularly and refined in consultation with supervisor, crane drivers and other employees1.3 Work performance rates are maintained with delays being minimised to ensure work program objectives are met1.4 Safety in the work area is continually monitored during crane operations and required action is taken to identify and control hazards and risks |
| 2 Monitor personnel working in operational area | <ul style="list-style-type: none">2.1 Vigilance is maintained when personnel are working in the cranes operational area in accordance with statutory requirements, national standards and safety codes2.2 Personnel are checked out of operational area before securing operational area/storage location/ships hold after completion of shift and when task is completed, ensuring all personnel are safely out of the area/hold2.3 Personnel working in the operational area/storage location/ships hold are warned of any danger in accordance with workplace procedures and regulatory requirements2.4 Personnel working in the operational area/storage location/ships hold are alerted when required and emergency responses are initiated to provide assistance to personnel in hold |
| 3 Solve problems and make decisions | <ul style="list-style-type: none">3.1 Problems are solved and decisions are made to ensure optimum efficiency of operations having regard to management and client objectives3.2 Employees are encouraged to contribute their opinions to facilitate effective decisions and resolution of problems |

Required Skills and Knowledge

REQUIRED KNOWLEDGE AND SKILLS

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

Required knowledge:

- Australian and international codes and regulations relevant to crane operations, including the

REQUIRED KNOWLEDGE AND SKILLS

Australian and International Dangerous Goods Codes

- Relevant OH&S and environmental protection procedures and guidelines
- Workplace procedures and policies for the monitoring of crane operations
- Focus of operation of work systems, equipment, management and site operating systems for crane operations
- Problems that may occur during crane operations and appropriate action that can be taken to resolve the problems
- Relevant handling and safety codes
- Types of cranes used to transfer loads at transport, rail or shipping terminals or wharves, their applications, and the regulations, procedures and precautions for their operation
- Requirements for Safe Working Load (SWL) and Working Load Limit (WLL) of cranes
- The marking and numbering systems for cargo
- Relevant bond, quarantine or other legislative requirements

Required skills:

- Communicate effectively with others when monitoring crane operations
- Read and interpret instructions, procedures, information, labels and signs relevant to the monitoring of crane operations
- Identify cargo, container and goods, coding, ADG and IMDG markings and, where applicable, emergency information panels
- Interpret and follow operational instructions and prioritise work
- Complete documentation related to the monitoring of crane operations
- Receive, acknowledge, send messages and give signals using required communications equipment and protocols while monitoring crane operations
- Estimate the size, shape and special requirements of loads
- Work collaboratively with others when monitoring 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 when monitoring crane operations in accordance with regulatory requirements and workplace procedures
- Implement contingency plans for unplanned events that may arise when monitoring crane operations
- Apply precautions and required action to minimise, control or eliminate hazards that may exist during the monitoring of crane operations
- Monitor work activities in terms of planned schedule
- Modify activities depending on differing operational contingencies, risk situations and environments

Required skills:

- 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, select and use relevant equipment, processes and procedures when monitoring crane operations
- 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

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 operation manuals

EVIDENCE GUIDE

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.

- | | |
|---|--|
| Work may be conducted: | <ul style="list-style-type: none">• in a range of work environments• by day or night |
| Customers may be: | <ul style="list-style-type: none">• internal or external |
| Workplaces may comprise: | <ul style="list-style-type: none">• large, medium or small worksites |
| Work may be conducted in: | <ul style="list-style-type: none">• limited or restricted spaces• exposed conditions• controlled or open environments |
| Cargo/freight may include: | <ul style="list-style-type: none">• goods with specialist requirements, including temperature controlled goods and dangerous goods |
| Cranes may include: | <ul style="list-style-type: none">• cranes in use at transport, rail or shipping terminals or wharves |
| Hazards in the work area may include exposure to: | <ul style="list-style-type: none">• chemicals• dangerous or hazardous substances• movements of equipment, goods, materials and vehicular traffic |
| Personal protective equipment may include: | <ul style="list-style-type: none">• gloves• safety headwear and footwear• safety glasses• two-way radios• protective clothing• high visibility clothing |

RANGE STATEMENT

Communication in the work area may include:

- phone
- fax
- email
- electronic data transfer (EDI)
- RF systems
- radio
- oral, aural or signed communications

Personnel in work area may include:

- workplace personnel
- site visitors
- contractors
- official representatives

Depending on the type of organisation concerned and the local terminology used, workplace procedures may include:

- company procedures
- enterprise procedures
- organisational procedures
- established procedures

Information/documents may include:

- goods identification numbers and codes
- manifests, bar codes, and container identification/serial number
- Australian and international codes of practice and regulations relevant to crane operations
- Australian and international regulations and codes of practice for the handling and transport of dangerous goods and hazardous substances
- operations manuals, job specifications and induction documentation
- manufacturers specifications for crane and associated equipment
- workplace procedures and policies
- supplier and/or client instructions
- dangerous goods declarations and material safety data sheets (where applicable)
- award, enterprise bargaining agreement, other industrial arrangements
- relevant Australian standards and certification requirements
- quality assurance procedures
- emergency procedures
- relevant codes, regulations, and licence/permit requirements for the operation of relevant categories of cranes
- Australian and international regulations and codes of

Applicable regulations and legislation may include:

RANGE STATEMENT

practice for the handling and transport of dangerous goods and hazardous substances, including:

- Australian and International Dangerous Goods Codes
- Australian Marine Orders and the International Maritime Dangerous Goods Code
- IATA Dangerous Goods by Air regulations
- Australian and International Explosives Codes
- relevant Australian Standards, including AS 2550
- licence, patent or copyright arrangements
- water and road use and licence arrangements
- export/import/quarantine/bond requirements
- marine orders
- relevant state/territory OH&S and environmental protection legislation
- workplace relations regulations
- workers compensation regulations

Unit Sector(s)

Not Applicable

Competency Field

Competency Field

D - Load Handling