



Australian Government

Department of Education, Employment and Workplace Relations

TLID4009A Direct crane operations

Release: 1

TLID4009A Direct crane operations

Modification History

Not Applicable

Unit Descriptor

Unit Descriptor

This unit involves the skills and knowledge required to direct crane operations in accordance with workplace and regulatory requirements including performing checks of the work area, performing checks of cargo, receiving and interpreting directions, anticipating cargo transfer sequence, and directing crane operators and transferring loads in accordance with job requirements. 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 directing crane drivers 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 Perform check of work area	1.1 The work area is checked ensuring that the area is in accordance with relevant safety codes and national standards 1.2 Unsafe work areas are identified and reported to appropriate personnel
2 Perform check of cargo	2.1 Cargo/containers are checked ensuring they are safe to handle in accordance with national standards and industry safety codes 2.2 Unsafe or damaged cargo is identified and reported to appropriate personnel
3 Interpret and provide directions	3.1 Directions are provided using the required communications technology/mode 3.2 Directions are confirmed ensuring any unclear instructions are checked and clarified with the relevant staff
4 Anticipate cargo transfer sequence	4.1 Cargo transfer sequence is anticipated ensuring compliance with operating procedures and safe and efficient transfer operations 4.2 Cargo sequence is anticipated by referral to ships stowage plans/required sheets
5 Direct crane operators and transfer loads	5.1 Crane operators are directed to work locations to ensure that cargo/containers are transferred in accordance with workplace procedures and regulatory requirements 5.2 Crane drivers are immediately alerted to unsafe conditions, safety incidents and emergencies in accordance with workplace procedures 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:

- Australian and international codes and regulations relevant to crane operations, including the Australian and International Dangerous Goods Codes
- Relevant OH&S and environmental protection procedures and guidelines
- Workplace procedures and policies for the direction 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

REQUIRED KNOWLEDGE AND SKILLS

- 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 directing crane operations
- Read and interpret instructions, procedures, information, labels and signs relevant to the direction 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 direction of crane operations
- Receive, acknowledge, send messages and give signals using required communications equipment and protocols while directing crane operations
- Estimate the size, shape and special requirements of loads
- Work collaboratively with others when directing 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 directing crane operations in accordance with regulatory requirements and workplace procedures
- Implement contingency plans for unanticipated situations that may arise when directing crane operations
- Apply precautions and required action to minimise, control or eliminate hazards that may exist during the direction of 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, select and use relevant equipment, processes and procedures when directing crane operations
- Operate and adapt to differences in equipment in accordance with standard operating procedures

Required skills:

- 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

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

EVIDENCE GUIDE

- 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:	• in a range of work environments • by day or night
Customers may be:	• internal or external
Workplaces may comprise:	• large, medium or small worksites
Work may be conducted in:	• limited or restricted spaces • exposed conditions • controlled or open environments
Workplace procedures when directing crane operations include:	• the following of the job plan and prepared work priorities • specific site operating procedures • requirements for safe and efficient operations • effective communications with crane operators ensuring directions are promptly and accurately understood
Cranes may include:	• cranes in use at transport, rail or shipping terminals or wharves
Account may be taken of the following conditions in relation to operational safety (depending on the context of crane operations concerned):	• organisational and statutory operating requirements • surface condition of the work area • stacking area • degree of visibility • weather conditions • other traffic • obstacles • site and nature of loads • ship/vehicle/ rail movements • tidal movement
Hazards in the work area may include exposure to:	• chemicals • dangerous or hazardous substances • movements of equipment, goods, materials and vehicular traffic
Communication in the work area	• phone

RANGE STATEMENT

may include:

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

Personnel in work area may include:

- workplace personnel
- site visitors
- contractors
- official representatives

Personal protective equipment may include:

- gloves
- safety headwear and footwear
- safety glasses
- two-way radios
- protective clothing
- 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

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

RANGE STATEMENT

Applicable regulations and legislation may include:

- 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 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