



Australian Government

Department of Education, Employment and Workplace Relations

RIIPEO204A Conduct shore side mooring operations

Release: 1

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Modification History

Not applicable.

Unit Descriptor

This unit covers the conduct of shore side mooring operation in metalliferous mining. It includes the preparation and berthing of vessels and releasing vessels.

Application of the Unit

This unit is appropriate for those working in a operational roles, at worksites within:

- Metalliferous mining

Licensing/Regulatory Information

Refer to Unit Descriptor.

Pre-Requisites

Not applicable.

Employability Skills Information

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 performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the required skills and knowledge section and the range statement. Assessment of performance is to be consistent with the evidence guide.
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Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Prepare for berthing	1.1. Access, interpret and apply compliance documentation relevant to shore side mooring operation 1.2. Receive, interpret and clarify details of mooring operations tasks to be performed by the mooring crew 1.3. Select personal protective equipment appropriate for work activities 1.4. Identify, address and report potential hazards , with action taken to minimise or eliminate risk to personnel, infrastructure, vessel and the environment 1.5. Ensure that all associated equipment is available and in allocated position ready for securing ship
2. Berth vessel	2.1. Communicate clearly and in a timely manner with personnel using approved communication methods 2.2. Receive instructions from shipping officer and carry out procedure for securing the vessel 2.3. Ensure that all safety procedures and practices are followed
3. Release vessel	3.1. Communicate clearly and in a timely manner with personnel using approved communication methods 3.2. Receive instructions from shipping officer for sequence of ships lines to be released 3.3. Release ships lines 3.4. Ensure that all safety precautions and procedures are followed

Required Skills and Knowledge

This section describes the skills and knowledge required for this unit.

Required skills

Specific skills are required to achieve the performance criteria in this unit, particularly for the application in the various circumstances in which this unit may be applied. This includes the ability to carry out the following as required to conduct shore side mooring operations:

- apply legislative, organisation and site requirements and procedures
- access, interpret and apply technical information/maintain accurate records
- identify plant status
- use safety equipment
- apply berthing and release requirements and procedures
- apply procedures for operating equipment, electric capstan winches, safety hooks & quick release hooks
- apply diagnostic techniques to determine equipment faults and to rectify/report as required
- use oral and written communications techniques

Required knowledge

Specific knowledge is required to achieve the Performance Criteria of this unit, particularly its application in a variety of circumstances in which the unit may be used. This includes knowledge of the following, as required to conduct shore side mooring operations:

- potential equipment and site hazards
- procedures and relative documentation
- isolation devices type and purpose
- emergency, fire suppression, fire alert and disaster procedures
- relevant operational and maintenance procedures and associated documentation
- hazard identification and risk assessment response procedures
- equipment associated with mooring operations
- relevant OHS legislation and policies

Evidence Guide

<p>The evidence guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, range statement and the Assessment Guidelines for the Training Package.</p>	
<p>Overview of assessment</p>	
<p>Critical aspects for assessment and evidence required to demonstrate competency in this unit</p>	<p>The evidence required to demonstrate competency in this unit must be relevant to worksite operations and satisfy all of the requirements of the performance criteria, required skills and knowledge and the range statement of this unit and include evidence of the following:</p> <ul style="list-style-type: none"> • knowledge of the requirements, procedures and instructions for conducting shore side mooring operations • implementation of requirements, procedures and techniques for the safe, effective and efficient completion of shore side mooring operations • working with others to undertake and complete shore side mooring operations that meets all of the required outcomes • consistent timely completion of shore side mooring operations that safely, effectively and efficiently meets the required outcomes
<p>Context of and specific resources for assessment</p>	<ul style="list-style-type: none"> • This unit must be assessed in the context of the work environment. Where personal safety or environmental damage are limiting factors, assessment may occur in a simulated environment provided it is realistic and sufficiently rigorous to cover all aspects of workplace performance, including task skills, task management skills, contingency management skills and job role environment skills. • The assessment environment should not disadvantage the participant. For example, language, literacy and numeracy demands of assessment should not be greater than those required on the job. • Customisation of assessment and delivery environment to sensitively accommodate cultural diversity. • Aboriginal people and other people from a non English speaking background may have second

	<p>language issues.</p> <ul style="list-style-type: none"> • Assessment of this competency requires typical resources normally used in the work environment. Selection and use of resources for particular worksites may differ due to site circumstances. • Where applicable, physical resources should include equipment modified for people with disabilities. • Access must be provided to appropriate learning and/or assessment support when required.
Method of assessment	<p>This unit may be assessed in a holistic way with other units of competency. The assessment strategy for this unit must verify required knowledge and skill and practical application using more than one of the following assessment methods:</p> <ul style="list-style-type: none"> • written and/or oral assessment of the candidate's required knowledge • observed, documented and/or first hand testimonial evidence of the candidate's: <ul style="list-style-type: none"> • implementation of appropriate requirement, procedures and techniques for the safe, effective and efficient achievement of required outcomes • consistently achieving the required outcomes • first hand testimonial evidence of the candidate's: <ul style="list-style-type: none"> • working with others to undertake and complete the conduct of shore side mooring operations
Guidance information for assessment	<p>Consult the SkillsDMC User Guide for further information on assessment including access and equity issues.</p>

Range Statement

<p>The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording, if used in the performance criteria, is detailed below. Essential operating conditions that may be present with training and assessment (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) may also be included.</p>	
<p>Relevant compliance documentation may include:</p>	<ul style="list-style-type: none"> • legislative, organisation and site requirements and procedures • manufacturer's guidelines and specifications • Australian standards • code of practice • Employment and workplace relations legislation • Equal Employment Opportunity and Disability Discrimination legislation
<p>Mooring operations may include:</p>	<ul style="list-style-type: none"> • throwing/heaving ship's lines • capstan winch operation • setting quick release hooks • running out mooring line • securing ship's lines • releasing ship's lines • preparing mooring area for operation • making fast to wharf, dolphin or mooring buoy • securing mooring lines
<p>Mooring crew may include:</p>	<ul style="list-style-type: none"> • contact person • lines person • capstan winch operator • assistant
<p>Personal protective equipment may include:</p>	<ul style="list-style-type: none"> • site standard PPE • life vests • gloves • torches • safety cage
<p>Hazards may include:</p>	<ul style="list-style-type: none"> • dust and water • heat • obstructions • structures • line breakage or movement • other equipment • vehicle movement on wharf

	<ul style="list-style-type: none"> • line boat movement • wind and waves (swell) • falls • failure of equipment • damage to mooring lines • damage to lead lines • faulty or damaged machinery equipment • moving or rotating equipment • using equipment beyond SWL • moving heavy ropes/lines • unsafe lifting techniques • slippery wharf area • poor housekeeping
Associated equipment may include:	<ul style="list-style-type: none"> • radios • ship loader • lead lines • safety hooks • dolphins • electrical capstan winches • quick release hooks • keeper arms
Personnel may include:	<ul style="list-style-type: none"> • shipping officer • contact person • ship's pilot • ship's line crew • capstan winch operator • assistant • port authority control tower
Communication methods may include:	<ul style="list-style-type: none"> • radio • telephone

Unit Sector(s)

Plant and Equipment Operation

Competency field

Refer to Unit Sector(s).

Co-requisite units

Not applicable.