



Australian Government

Department of Education, Employment and Workplace Relations

**TDMMR6007A ASSIST IN ROUTINE
DECK OPERATIONS WITHIN THE
LIMITS OF RESPONSIBILITY OF A
GENERAL PURPOSE HAND**

Release: 1

TDMMR6007A ASSIST IN ROUTINE DECK OPERATIONS WITHIN THE LIMITS OF RESPONSIBILITY OF A GENERAL PURPOSE HAND

Modification History

Not applicable.

Unit Descriptor

UNIT DESCRIPTOR:

This unit involves the seamanship skills, knowledge and techniques required when assisting in routine deck, rigging and lifting operations and using associated equipment in accordance with safe working practices as part of the duties of a General Purpose Hand on a commercial vessel of less than 80 metres in length

Application of the Unit

Application of the unit	The unit has application in qualifications for a General Purpose Hand, (i.e. Certificate I in Transport&Distribution (Maritime Operations)).
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Licensing/Regulatory Information

Licensing/legislative requirements	The unit is consistent with the relevant sections of State and Territory regulations and the National Standard for Commercial Vessels (and USL Code) dealing with basic seamanship, rigging and lifting responsibilities of a General Purpose Hand on a coastal vessel.
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Pre-Requisites

Not applicable.

Employability Skills Information

Not applicable.

Elements and Performance Criteria Pre-Content

<i>Elements describe the essential outcomes of a unit of competency.</i>	<i>Performance Criteria describe the required performance needed to demonstrate achievement of the element. Assessment of performance is to be consistent with the Evidence Guide.</i>
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Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
<p>1 Use ropes and wire in routine operations</p>	<p>a Basic knots, hitches and bends are correctly made and used in the course of vessel operations</p> <p>c Rope, wire and chains are used in accordance with company procedures and standard marine practice</p>
<p>2 Operate lifting gear</p>	<p>a Lifting gear is checked and prepared for operation prior to use</p> <p>b Defective lifting gear is identified and isolated and reported as per standard operating procedures and OH&S requirements</p> <p>c Loads are safely attached and lifted as per standard operating procedures and OH&S requirements</p>
<p>3 Perform tasks aloft and over vessel's side</p>	<p>a Site and equipment for working aloft are prepared in accordance with shipboard practices and recognised standards</p> <p>b Required precautions are taken when working aloft or over the side</p>

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ELEMENT	PERFORMANCE CRITERIA
<p>3 Perform tasks aloft and over vessel's side (continued)</p>	<p>c Chairs, safety harnesses and appropriate safety equipment is used in accordance with shipboard practices and recognised standards</p> <p>d Equipment used when working aloft is correctly maintained and stored</p>
<p>4 Lash and secure items</p>	<p>a Lashing equipment is inspected and maintained in accordance with shipboard practices and recognised standards</p> <p>b Faulty lashing equipment is identified and isolated, reported and maintained in accordance with shipboard practices and recognised standards</p> <p>c Items are lashed and secured in accordance with shipboard practices and recognised standards</p> <p>d Appropriate consideration is given to the effects of vessel's motion on stowed items when lashing them</p> <p>e Lashing equipment is correctly stored after use</p>
<p>5 Secure and monitor access ways</p>	<p>a Personnel access ways are set up and secured in accordance with shipboard practices and recognised standards</p> <p>b Personnel access ways are brought in and stored in accordance with vessel procedures and standard marine practices</p> <p>c Personnel access ways are monitored and adjusted while alongside in accordance with vessel procedures and standard marine practices</p>

ELEMENT	PERFORMANCE CRITERIA
6 Carry out cleaning operations	<ul style="list-style-type: none">a Appropriate chemicals, cleaning agents and equipment are selected to clean an assigned area of the vesselb Manufacturer's warning and instructions regarding the use of the chemicals and cleaning agents are read, understood and appliedc Cleaning tasks are completed in the assigned area in accordance with established procedures and manufacturer's instructionsd Chemicals, cleaning agents and equipment are properly stored after use

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Required Skills and Knowledge

REQUIRED KNOWLEDGE

This describes the knowledge required for this unit.

- 1 Relevant sections of maritime regulations
- 2 Relevant OH&S legislation and policies
- 3 Basic types of knots, bends and hitches in common use, their characteristics, applications and limitations, and methods of tying them using synthetic and fibre rope of varying construction and size
- 4 Standard operating procedures for the use of ropes and wire on a small vessel
- 5 Basic awareness of breaking strain and safe working load for ropes
- 6 Basic principles of rope deterioration and care requirements for different types of rope and wire used on a small vessel
- 7 Basic principles and limitations of lifting equipment and components
- 8 Procedures for checking and operating lifting equipment, including slinging of loads and various lifting fittings and arrangements
- 9 Precautions and procedures for working aloft and over the side on a coastal vessel
- 10 Storage procedures for equipment used when working aloft or over the side
- 11 Procedures for setting up, securing and monitoring of personnel access ways
- 12 Basic principles and procedures for the lashing and securing of items on a small vessel
- 13 Maritime communication techniques
- 14 Procedures for the disposal of debris and waste during planned maintenance activities

REQUIRED KNOWLEDGE

- 15 Storage principles of paints, chemicals and cleaning agents used in planned maintenance operations
- 16 Procedures for the correct entry into a confined space on board a vessel, including OH&S precautions

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REQUIRED SKILLS

This describes the basic skills required for this unit.

- 1 Use basic verbal communication skills required when performing operations as a general purpose hand on a small vessel
- 2 Read, interpret and apply basic instructions relevant to rigging and lifting operations on a small domestic vessel
- 3 Work safely and collaboratively with others during routine deck operations on a small domestic vessel
- 4 Select and use rigging and lifting ropes and equipment as per operating instructions
- 5 Recognise routine problems during rigging and lifting operations on a small domestic vessel and take appropriate action
- 6 Tie required knots and demonstrate basic rope handling skills
- 7 Adapt to changes in equipment and procedures in the workplace
- 8 Follow required work schedule as per company requirements

Evidence Guide

Evidence Guide

TDMMR6007A ASSIST IN ROUTINE DECK OPERATIONS WITHIN THE LIMITS OF RESPONSIBILITY OF A GENERAL PURPOSE HAND

The Evidence Guide provides advice on assessment and must be read in conjunction with the Performance Criteria, Required Skills and Knowledge, the Range Statement and the Assessment Guidelines for this Training Package.

<p>1 Critical aspects of evidence required to demonstrate competency in this unit</p>	<p>Assessment must confirm appropriate knowledge and skills to:</p> <ul style="list-style-type: none"> a Use and check ropes and wire b Operate lifting gear c Set up and monitor personnel access ways d Perform tasks aloft and over vessel's side e Lash and secure items g Exercise all required safety and hazard control procedures when carrying out rigging operations h Use and store common cleaning agents i Communicate effectively with others during rigging operations
<p>2 Evidence required for demonstration of consistent performance</p>	<ul style="list-style-type: none"> a Performance is demonstrated consistently over a period of time and in a suitable range of contexts b Consistently applies underpinning seamanship knowledge and skills when <ul style="list-style-type: none"> 1 using and maintaining ropes and wire 2 operating lifting gear 3 rigging and using fishing gear 4 performing tasks aloft and over vessel's side 5 lashing and securing items 6 applying safety precautions during rigging operations c Shows evidence of application of relevant workplace procedures, including: <ul style="list-style-type: none"> 1 relevant sections of marine regulations

- 2 safety management system procedures
- 3 OH&S regulations and hazard prevention policies and procedures
- 4 standard operating procedures and work instructions
- 5 relevant Australian standards
- 6 relevant manufacturer's guidelines relating to the use of ropes, wires, chains, anchors, deck equipment and machinery, including instructions on equipment capability and limitations

Evidence Guide (continued)

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2 Evidence required for demonstration of consistent performance (continued)

- 7 on-board housekeeping processes
- d Action is taken promptly to report and/or rectify accidents, safety incidents and operational problems in accordance with regulations and procedures
- e Work is completed systematically with required attention to detail
- f Recognises and adapts appropriately to cultural differences in the workplace, including modes of behaviour and interactions between crew and others

3 Context of assessment

- a Assessment of competency must comply with the assessment requirements of the relevant maritime regulations
- b Assessment of this unit must be undertaken within relevant marine authority approved and audited arrangements by a registered training organisation:
 - 1 As a minimum, assessment of knowledge must be conducted through appropriate written/oral examinations, and
 - 2 Appropriate practical assessment must occur:
 - i at the registered training organisation; and/or

	ii on an appropriate working or training vessel
4 Specific resources required for assessment	<p>Access is required to opportunities to:</p> <p>a assist in a suitable range of appropriately simulated basic rigging, lifting and lashing exercises, situations and case studies and associated resources; and/or</p> <p>b assist with basic rigging, lifting and lashing operations on a working vessel</p>

Range Statement

Range Statement

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The Range Statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance.

VARIABLE

SCOPE

1. GENERAL CONTEXT

a. Work must be carried out:	1 in compliance with the relevant regulations.
b. Work is performed:	1 within defined operational procedures, with responsibility for own outputs in relation to specified quality standards.
c. Work involves:	1 performing routine rigging operations and using associated equipment in accordance with safe working practices.

2. WORKSITE ENVIRONMENT

The Range Statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance.

a Vessel may include:	1 any Australian domestic commercial vessel of less than 80 m in length.
b Rigging operations may include:	<ul style="list-style-type: none"> 1 using and checking ropes, wires and chains 2 checking and using lifting equipment, ropes, chains and rigging gear when lifting loads 3 lashing items 4 securing and monitoring and adjusting personnel access ways
c Rigging operations may be carried out:	<ul style="list-style-type: none"> 1 by day or night in normal operational situations 2 under normal and adverse conditions of sea and weather 3 while underway 4 during berthing and unberthing operations 5 while anchoring or mooring 6 when berthed 7 in adverse weather conditions

Range Statement (continued)

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VARIABLE	SCOPE
d Basic knots and splices may include:	<ul style="list-style-type: none"> 1 figure of eight 2 reef knot 3 clove hitch 4 rolling hitch

VARIABLE	SCOPE
	<ul style="list-style-type: none"> 5 sheet bend 6 bowline 7 common whipping 8 sail maker's whipping
<p>e Personnel access equipment may include:</p>	<ul style="list-style-type: none"> 1 gangways 2 ladders
<p>f Lifting gear may include:</p>	<ul style="list-style-type: none"> 1 cranes 2 derricks 3 winches 4 hoists 5 booms 6 trawler gantries 7 trawl booms 8 pot/trap winches
<p>g Equipment for working aloft and over the side may include:</p>	<ul style="list-style-type: none"> 1 bosun's chair 2 safety harnesses 3 stage
<p>h Items to be lashed may include:</p>	<ul style="list-style-type: none"> 1 crates, boxes and cartons 2 other small containers 3 gas bottles

VARIABLE	SCOPE
	4 vehicles
	5 fish and fishing gear

Range Statement (continued)

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VARIABLE	SCOPE
i Lifting gear components may include:	1 shackles
	2 hooks
	3 slings
	4 blocks and pulleys
	5 tackles
	6 hoists
	7 eyebolts
	8 beam clamps
	9 trolleys
	10 pot/trap lines
	11 long lines
	12 set lines
	13 trawl wires
	14 trawler gantries
	15 otter boards
	16 chains

VARIABLE	SCOPE
j Cleaning operations may include:	1 cleaning of any relevant part of a small domestic vessel 2 safe use of basic common cleaning agents
k Documentation and records may include:	1 relevant State and Territory maritime regulations 2 safety management system procedures 3 shipboard rigging procedures 4 OH&S regulations 5 manufacturer's instructions and recommended procedures 6 relevant Australian and international standards and regulations 7 relevant seamanship texts and manuals
l Applicable legislation, regulations and codes may include:	1 relevant sections of State and Territory maritime regulations and National Standard for Commercial vessels (and USL Code) 2 safety management system 3 relevant Commonwealth, State and Territory OH&S legislation

Unit Sector(s)

Not applicable.

Field

Field R Carry Out Operations on Equipment and Systems

Relationship to other units

Relationship to other units	The unit may be assessed in conjunction with other units that relate to the functions of the occupation(s) concerned.
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