



Australian Government

Department of Education, Employment and Workplace Relations

TDMMR1807B OPERATE DECK MACHINERY INSTALLED ON A SMALL VESSEL OF LESS THAN 750 KW PROPULSION POWER

Release: 1

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Modification History

Not applicable.

Unit Descriptor

UNIT DESCRIPTOR:

This unit involves the skills and knowledge required within the limits of responsibility of a Master 5 and Marine Engine Drivers Grades 2 and 3 to operate and carry out basic user maintenance on shipboard lifting equipment and deck machinery as per manufacturer's instructions, marine regulations and vessel operational procedures.

Application of the Unit

Application of the unit	The unit has applications in the qualification for a Master 5 and Marine Engine Drivers Grades 2 and 3 as per relevant sections of Part D of the National Standard for Commercial Vessels (NSCV), i.e. Certificate III in Transport&Distribution (Coastal Maritime Operations - Master Class 5), Certificate III in Transport&Distribution (Marine Engine Driving Grade 2) and Certificate II in Transport&Distribution (Marine Engine Driving - Grade 3).
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Licensing/Regulatory Information

Licensing/legislative requirements	The unit is consistent with the relevant sections of State and Territory maritime regulations and NSCV/USL Code for a Master 5, MED 2 and MED 3.
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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
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1 Operate deck machinery	<ul style="list-style-type: none">a Deck machinery is operated as per procedures and manufacturer's instructionsb Guards and safety features are checked and are kept in place while machinery is in use
2 Carry out basic user maintenance on deck machinery	<ul style="list-style-type: none">a The performance of deck machinery is routinely monitored in accordance with manufacturer's instructionsb Machinery faults are identified and appropriate action initiated to report or rectify problems within the limits of responsibility as per standard proceduresc Basic routine service checks and procedures are followed to maintain the serviceability of deck machinery in accordance with manufacturer's instructions

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| 3 Follow safety and hazard control procedures | a All safety precautions and regulations are followed when operating deck machinery |
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| 3 Follow safety and hazard control procedures (continued) | <table border="0"><tr><td style="vertical-align: top; padding-right: 10px;">b</td><td>Safety and hazard minimisation procedures and regulations are followed at all times during the operation of deck machinery</td></tr><tr><td style="vertical-align: top; padding-right: 10px;">c</td><td>Appropriate action is taken in the event of a failure or emergency involving deck machinery to isolate and secure the relevant equipment and the vessel and maintain the safety of the vessel and persons involved</td></tr><tr><td style="vertical-align: top; padding-right: 10px;">d</td><td>Shipboard emergency and contingency plans are followed in the event of a failure or emergency involving deck machinery</td></tr></table> | b | Safety and hazard minimisation procedures and regulations are followed at all times during the operation of deck machinery | c | Appropriate action is taken in the event of a failure or emergency involving deck machinery to isolate and secure the relevant equipment and the vessel and maintain the safety of the vessel and persons involved | d | Shipboard emergency and contingency plans are followed in the event of a failure or emergency involving deck machinery |
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Required Skills and Knowledge

REQUIRED KNOWLEDGE

This describes the knowledge required for this unit.

- 1 Relevant State and Territory maritime, OH&S and pollution control regulations and policies
- 2 Procedures for the operation of deck machinery on a small vessel
- 3 Safety, environmental and hazard control precautions and procedures relevant to the operation of deck machinery on a small vessel
- 4 Principal features and operating characteristics of deck machinery used on small vessels, including:
 - a lifting equipment and gear

REQUIRED KNOWLEDGE

- b winches and capstans
- c fishing gear

REQUIRED KNOWLEDGE

- 5 Problems related to the operation of deck machinery and appropriate action and solutions
- 6 Communication techniques and signals needed during the operation of deck machinery on small commercial vessels

REQUIRED SKILLS

This describes the basic skills required for this unit.

- 1 Use basic verbal and visual communication skills required during the operation of deck machinery
- 2 Read, interpret and apply simple instructions on the operation and servicing of deck machinery
- 3 Complete any required records related to the operation of deck machinery on a small vessel
- 4 Work safely and collaboratively with others during the operation of deck machinery on a small vessel
- 5 Select and use relevant tools and equipment as per instructions
- 6 Recognise faulty equipment and take appropriate action as per operating instructions
- 7 Recognise routine problems and hazards while operating deck machinery and take appropriate action
- 8 Adapt to changes in equipment and procedures in the workplace
- 9 Follow required work schedule as per company requirements

Evidence Guide

Evidence Guide

TDMMR1807B OPERATE DECK MACHINERY INSTALLED ON A SMALL VESSEL OF LESS THAN 750 KW PROPULSION POWER

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.

1 Critical aspects of evidence required to demonstrate competency in this unit	<p>Assessment must confirm appropriate knowledge and skills to:</p> <ul style="list-style-type: none"> a Operate deck machinery on a small commercial vessel b Identify typical problems related to the operation of deck machinery on a small vessel and take appropriate action c Exercise all required safety, environmental and hazard control precautions and procedures during operation of deck machinery on a small vessel d Communicate effectively with others when operating deck machinery on a small vessel
2 Evidence required for demonstration of consistent performance	<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 knowledge and skills when: <ul style="list-style-type: none"> 1 operating deck machinery on a small commercial vessel 2 applying safety and pollution control precautions when operating deck machinery c Shows evidence of application of relevant workplace procedures, including: <ul style="list-style-type: none"> 1 sections of relevant marine regulations 2 OH&S regulations and hazard prevention policies 3 job procedures and work instructions 4 relevant vessel manufacturer's guidelines relating to operating deck machinery 5 environmental protection procedures when carrying out maintenance operations d Action is taken promptly to report and/or rectify issues and problems identified with operating deck machinery in accordance with procedures and manufacturer's instructions

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.

- 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 among crew and others

Evidence Guide (continued)

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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

- Access is required to opportunities to:
- a participate in a range of exercises, case studies and other simulated practical and knowledge assessments that demonstrate the skills and knowledge to operate deck machinery on a small vessel; and/or
 - b operate deck machinery on an operational small commercial or training vessel

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
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1. GENERAL CONTEXT

a. Work must be carried out:	1 in compliance with the relevant sections of the State and Territory marine regulations, the National Standard for Commercial Vessels and USL Code
b. Work is performed:	1 within established procedures, with responsibility for own outputs in relation to specified quality and safety standards
c. Work requires:	1 limited responsibility for others in achieving outcomes, including the application of solutions to a variety of predictable maintenance problems

2. WORKSITE ENVIRONMENT

a Vessel may include:	1 any small commercial vessel between less than 750 kW propulsion power
b Operation and basic maintenance of deck machinery may	1 by day or night in both normal and emergency situations 2 under any permissible conditions of weather 3 while underway

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

be conducted:	<ul style="list-style-type: none"> 4 during berthing and unberthing operations 5 while anchored or moored 6 during fishing operations 7 while in port 8 while in dry dock
c Deck machinery may include:	<ul style="list-style-type: none"> 1 lifting equipment 2 winches 3 capstans 4 net and line handling equipment 5 basic hydraulic systems

Range Statement (continued)

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VARIABLE	SCOPE
d Basic user maintenance may include:	<ul style="list-style-type: none"> 1 routine servicing in accordance with established procedures 2 routine visual and performance checks 3 identification of poor performance or faults in the operation of deck machinery 4 identification of faulty equipment, lifting gear or machinery components and arranging for repair or replacement 5 application of lubricants to moving parts of deck machinery

VARIABLE	SCOPE
e Maintenance tools and equipment may include:	<ol style="list-style-type: none"> 1 hand and power tools, including screwdrivers, drills, grinders, spanners, wrenches, wire cutters, etc. 2 greasing and lubrication tools 3 protective clothing and equipment such as: <ol style="list-style-type: none"> i eye and ear protection ii headgear iii safety boots
f Sources of information and documentation may include:	<ol style="list-style-type: none"> 1 relevant regulations 2 deck machinery operation and maintenance procedures 3 manufacturer's instructions, specifications and recommended procedures
g Applicable regulations and legislation may include:	<ol style="list-style-type: none"> 1 State and Territory marine regulations related to the operation of small vessels 2 relevant sections of the NSCV and USL Code 3 relevant international, Commonwealth, State and Territory OH&S and pollution control 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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