



Australian Government

Department of Education, Employment and Workplace Relations

TDMMF2307B OPERATE EMERGENCY EQUIPMENT AND APPLY EMERGENCY PROCEDURES

Revision Number: 1

TDMMF2307B OPERATE EMERGENCY EQUIPMENT AND APPLY EMERGENCY PROCEDURES

Modification History

Not applicable.

Unit Descriptor

UNIT DESCRIPTOR:

This unit involves the skills and knowledge required of an Integrated Rating to operate emergency equipment and apply emergency procedures, including taking appropriate initial action on becoming aware of an emergency, maintaining the integrity of emergency and distress alerting systems, avoidance of false distress alerts, and operating emergency equipment in conformity with established practices and procedures.

Application of the Unit

Application of the unit	The unit has application in the qualification for an Integrated Rating, i.e. Certificate III in Transport&Distribution(Coastal Maritime Operations - Integrated Rating).
--------------------------------	--

Licensing/Regulatory Information

Licensing/legislative requirements	The unit is consistent with the relevant sections of STCW 95 and Marine Orders under the Australian Navigation Act 1912, describing the specific requirements for Integrated Ratings.
---	---

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>
--	--

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1 Apply emergency procedures	- a Emergency situations are correctly identified as per established nautical practice - b Initial action on becoming aware of an emergency or abnormal situation is in conformity with established practices and procedures - c Action taken is timely and appropriate for seriousness of the emergency and the prevailing weather and sea conditions - d Communications are clear and concise at all times and orders are acknowledged in a timely and seamanlike manner - e False distress alerts are avoided through the application of established nautical practice - f Appropriate action is taken in the event of accidental activation of a distress alert in accordance with regulatory requirements and vessel's procedures
ELEMENT	PERFORMANCE CRITERIA

ELEMENT	PERFORMANCE CRITERIA
2 Maintain the integrity of emergency and distress alerting systems	- a Emergency and distress alerting systems are used in accordance with manufacturer's instructions and vessel's procedures - b The integrity of emergency and distress alerting systems is maintained as per standard procedures, manufacturer's instructions and regulatory requirements - c Faulty or non-operational emergency and distress alerting equipment is identified, isolated, reported and/or replaced as per manufacturer's instructions and standard procedures

Required Skills and Knowledge

REQUIRED KNOWLEDGE

This describes the knowledge required for this unit.

- 1 Applicable sections of relevant maritime regulations dealing with emergency equipment and procedures
- 2 ISM Code and associated vessel's safety management system and procedures (where applicable)
- 3 Relevant OH&S legislation and policies applicable to the use of emergency equipment
- 4 SOLAS Convention and related regulations
- 5 Duties and responsibilities of shipboard personnel during emergencies
- 6 Procedures for emergency response on board a commercial vessel
- 7 Incidents that may result in an emergency on board vessel and the appropriate response in each case
- 8 Functions and purpose of pyrotechnic distress signals, satellite emergency position indicating radio beacons (EPIRBs), and search and rescue transponders (SARTs)
- 9 Precautions to maintain the integrity of emergency and distress alerting systems
- 10 The meaning of various maritime emergency alarms, the guidelines and procedures for their activation and signals and the action to be taken when they are activated
- 11 Techniques for avoiding false distress alerts and the action that must be taken in the event of accidental activation
- 12 Maritime communication techniques

REQUIRED SKILLS

This describes the basic skills required for this unit.

- 1 Use basic verbal and other communication skills required when operating

REQUIRED SKILLS

- emergency equipment and applying emergency procedures
- 2 Select and use appropriate internal and external communications equipment in real or simulated emergency situations
 - 3 Read, interpret and apply basic instructions and standard operating procedures relevant to operating emergency equipment
 - 4 Read, interpret and follow emergency procedures in real or simulated emergency situations
 - 5 Work safely and collaboratively with others when operating emergency equipment and applying emergency procedures
 - 6 Modify activities dependent on differing vessel contingencies, risk situations and environments
 - 7 Recognise routine problems that may occur when operating emergency equipment and applying emergency procedures and take appropriate action
 - 8 Adapt to differences in vessels, equipment and standard operating procedures
 - 9 Select and safely use emergency equipment as per operating instructions, including pyrotechnic distress signals, satellite emergency position indicating radio beacons (EPIRBs), and search and rescue transponders (SARTs)
 - 10 Identify, isolate and report faulty or non-operational emergency and distress alerting equipment
 - 11 Store emergency equipment after use as per standard operating procedures

Evidence Guide

Evidence Guide

TDMMF2307B OPERATE EMERGENCY EQUIPMENT AND APPLY EMERGENCY PROCEDURES

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.

Evidence Guide

TDMMF2307B OPERATE EMERGENCY EQUIPMENT AND APPLY EMERGENCY PROCEDURES

1 Critical aspects of evidence required to demonstrate competency in this unit	Assessment must confirm appropriate knowledge and skills to: - a Recognise emergency or abnormal situations - b Take appropriate initial action on becoming aware of an emergency or abnormal situation - c Operate emergency equipment - d Maintain the integrity of emergency and distress alerting systems - e Communicate clearly, concisely and effectively with others during an emergency on board vessel
2 Evidence required for demonstration of consistent performance	- 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: 1 responding to a real or simulated emergency situation 2 taking appropriate initial action on becoming aware of an emergency or abnormal situation 3 applying safety precautions relevant to emergency procedures 4 maintaining the integrity of emergency and distress alerting systems - c Shows evidence of application of relevant workplace procedures, including: 1 relevant maritime regulations 2 OH&S regulations and hazard prevention policies and procedures 3 established emergency procedures 4 vessel's safety management procedures

Evidence Guide

TDMMF2307B OPERATE EMERGENCY EQUIPMENT AND APPLY EMERGENCY PROCEDURES

- 5 relevant manufacturer's guidelines relating to the operation and use of emergency equipment, including instructions on equipment capability and limitations
- d Action is taken promptly to report and/or act upon an emergency or abnormal situation on board vessel
- 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

Evidence Guide (continued)

TDMMF2307B OPERATE EMERGENCY EQUIPMENT AND APPLY EMERGENCY PROCEDURES

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 carry out a range of suitably simulated practical and knowledge assessments that demonstrate the skills and knowledge to respond to emergencies on board a vessel;

Evidence Guide (continued)

TDMMF2307B OPERATE EMERGENCY EQUIPMENT AND APPLY EMERGENCY PROCEDURES

- | | |
|---|--|
| | and/or |
| b | participate in emergency response drills on board an operational commercial or training vessel |

Range Statement

Range Statement

TDMMF2307B OPERATE EMERGENCY EQUIPMENT AND APPLY EMERGENCY PROCEDURES

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 maritime regulations
b. Work is performed:	1 within defined emergency procedures with limited accountability and responsibility for self and others in achieving the prescribed outcomes
c. Work involves:	1 the application of basic emergency procedures and the use of emergency equipment on board a vessel. Taking of immediate action in accordance with company procedures and limits of responsibility is required

Range Statement

TDMMF2307B OPERATE EMERGENCY EQUIPMENT AND APPLY EMERGENCY PROCEDURES

- | | |
|--------------------------|---|
| d. Work requires: | 1 some judgement in recognising and confirming the nature and extent of the emergency and taking appropriate initial action within the established limits of responsibility |
|--------------------------|---|

2. WORKSITE ENVIRONMENT

a Vessel may include:	1 any Australian or international commercial vessel
b Potential emergencies may occur:	1 by day or night 2 under any possible conditions of weather and loading 3 while underway 4 during berthing and unberthing operations 5 while anchoring or mooring
c Emergencies may include:	1 collision with another vessel 2 explosion on board vessel

Range Statement (continued)

TDMMF2307B OPERATE EMERGENCY EQUIPMENT AND APPLY EMERGENCY PROCEDURES

VARIABLE	SCOPE
c Emergencies may include: (continued)	3 fire on board vessel 4 impairment of integrity of hull and ingress of water 5 loss of steering control

Range Statement (continued)

**TDMMF2307B OPERATE EMERGENCY EQUIPMENT AND APPLY
EMERGENCY PROCEDURES**

	6 loss of motive power 7 foundering 8 grounding 9 person overboard 10 rescue and evacuation of injured personnel
d Emergency and distress alerting systems may include:	1 pyrotechnic distress signals 2 GMDSS survival craft VHF radios 3 satellite emergency position indicating radio beacons (EPIRBs) 4 search and rescue transponders (SARTs) 5 whistles
e Documentation and records may include:	1 relevant maritime regulations dealing with emergency equipment and procedures 2 SOLAS regulations 3 AMSA publication Survival at Sea - a Training and Instruction Manual 4 instructions from official search and rescue authorities 5 vessel's procedures for emergency response 6 vessel's safety management system plans, procedures, checklists and instructions (where applicable) 7 manufacturer's instructions for the use of emergency and distress alerting systems 8 instructions of relevant maritime authorities related to survival at sea

Range Statement (continued)

**TDMMF2307B OPERATE EMERGENCY EQUIPMENT AND APPLY
EMERGENCY PROCEDURES**

- | | |
|----|---|
| 9 | relevant OH&S legislation, codes of practice, policies and procedures |
| 10 | relevant Australian and international standards |

Range Statement (continued)

**TDMMF2307B OPERATE EMERGENCY EQUIPMENT AND APPLY
EMERGENCY PROCEDURES**

VARIABLE	SCOPE						
f Applicable legislation, regulations and codes may include:	<table border="1"> <tr> <td>1</td> <td>relevant sections of the IMO STCW 95 Code, the Australian USL Code and/or AMSA Marine Orders (dependent on the type of vessel and the role of the person concerned)</td> </tr> <tr> <td>2</td> <td>Safety of Life at Sea (SOLAS) Convention</td> </tr> <tr> <td>3</td> <td>relevant international, Commonwealth, State and Territory OH&S legislation</td> </tr> </table>	1	relevant sections of the IMO STCW 95 Code, the Australian USL Code and/or AMSA Marine Orders (dependent on the type of vessel and the role of the person concerned)	2	Safety of Life at Sea (SOLAS) Convention	3	relevant international, Commonwealth, State and Territory OH&S legislation
1	relevant sections of the IMO STCW 95 Code, the Australian USL Code and/or AMSA Marine Orders (dependent on the type of vessel and the role of the person concerned)						
2	Safety of Life at Sea (SOLAS) Convention						
3	relevant international, Commonwealth, State and Territory OH&S legislation						

Unit Sector(s)

Not applicable.

Field

Field MF Operational Quality and Safety

Relationship to other units

Relationship to other units	The unit must be assessed in conjunction with other units that form part of a maritime worker's job function.
------------------------------------	---