



Australian Government

Department of Education, Employment and Workplace Relations

TDMMF607B ORGANISE AND MANAGE THE PROVISION OF MEDICAL CARE ON BOARD A VESSEL

Revision Number: 1

TDMMF607B ORGANISE AND MANAGE THE PROVISION OF MEDICAL CARE ON BOARD A VESSEL

Modification History

Not applicable.

Unit Descriptor

UNIT DESCRIPTOR:

This unit involves the skills and knowledge required to organise and manage the provision of medical care on board a commercial vessel in accordance with procedures as specified in the publications: (1) International Medical Guide for Ships, (2) Medical Section of the International Code of Signals and (3) Medical First Aid Guide for Use in Accidents involving Dangerous Goods.

This includes taking charge of a medical emergency on board a vessel, seeking assistance from shore-based medical advisers and carrying out medical procedures as directed by shore-based medical advisers.

Application of the Unit

Application of the unit	
	The unit has application in qualifications for Master (Unlimited), Master (Less than 500 GT) and Master 3, i.e. Advanced Diploma of Transport&Distribution (Maritime Operations - Master Unlimited), Diploma of Transport&Distribution (Maritime Operations - Deck Watchkeeper) and Diploma of Transport&Distribution (Coastal Maritime Operations - Master 3).

Licensing/Regulatory Information

Licensing/legislative requirements	The unit is consistent with the relevant sections of STCW 95, the International Ship and Port Facility Security (ISPS) Code and Marine Orders under the Australian Navigation Act 1912, describing requirements for a Master on a vessel of 500 gross tonnage or more operating in international waters.
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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
1 Take charge of a medical emergency on board a vessel	- a Medical emergencies and injuries are identified and assessed correctly - b Correct management procedures are implemented for the type of medical emergency or injury identified - c Resuscitation techniques are correctly applied when required

ELEMENT	PERFORMANCE CRITERIA
2 Provide routine medical care on board a vessel	a Routine medical procedures are carried out in accordance with regulatory requirements and company procedures
2 Provide routine medical care on board a vessel (continued)	- b Health and hygiene education is provided to crew and passengers as required by health authorities and company procedures - c Diagnosis and management of injuries, infectious and sexually transmitted diseases, and cardiovascular and central nervous system disorders are carried out in accordance with regulatory requirements and company and prescribed medical procedures - d Health precautions and disease prevention measures are implemented in accordance with regulatory requirements and company procedures
3 Seek assistance from shore-based medical advisers	- a Correct procedures are used to access radio medical advice when necessary to manage a medical emergency on board a vessel - b Protocols required when seeking radio medical advice for accident and injury are followed
4 Carry out medical procedures as directed by shore-based medical advisers	- a A patient health assessment is carried out as required - b Aseptic techniques are applied during wound dressing, suturing and injection procedures - c Symptoms, signs and descriptions of assessments made of a patient's condition are relayed to shore-based advisers - d Medical procedures are carried out as directed by shore-based advisers

ELEMENT	PERFORMANCE CRITERIA
	e Advice from shore-based advisers is complemented by reference to relevant marine publications on medical care on board a vessel
5 Perform quarantine procedures when entering port from overseas	a b c d e f

ELEMENT	PERFORMANCE CRITERIA
6 Perform basic nursing activities	a The position of the patient is adjusted to optimise personal comfort for the medical condition or injury concerned b Hygiene measures are used that are appropriate for the degree of illness or injury c Condition of the patient is regularly monitored both visually and through appropriate measures of bodily signs d Appropriate action is taken if there are signs of a deterioration in the condition of the patient

ELEMENT	PERFORMANCE CRITERIA
7 Maintain medical records	a Medical records are kept in accordance with regulatory requirements and company procedures

Required Skills and Knowledge

REQUIRED KNOWLEDGE

This describes the knowledge required for this unit.

- 1 Relevant maritime regulations related to medical care on board a vessel
- 2 Emergencies, injuries and medical problems that may occur on board a vessel and appropriate action, treatments and solutions
- 3 Relevant OH&S and health legislation and policies
- 4 Shipboard procedures for:
 - a conducting an initial patient assessment
 - b managing injuries
 - c managing medical emergencies
 - d carrying out resuscitation techniques
 - e treating infectious diseases
 - f treating of commonly encountered industrial related medical conditions
 - g caring for eyes, ear, nose, rehydration and urinary retention
 - h managing surgical emergencies
 - i managing drug and alcohol abuse
 - j treating disorders of the central nervous system and cardiovascular diseases
 - k caring for dying or dead persons
 - l managing sexually transmitted diseases
 - m shipboard hygiene and health education

REQUIRED KNOWLEDGE

- n implementing quarantine regulations
- o administering drugs and subcutaneous and intramuscular injections within legal and practical guidelines

REQUIRED KNOWLEDGE

- 5 Suturing techniques as per the Ship Captain's Medical Guide
- 6 Techniques for care of wounds
- 7 Quarantine procedures when entering a port from overseas
- 8 Potential dangers associated with contaminated ballast water
- 9 Precautions for the prevention of disease in seafarers
- 10 Ways in which disease can spread on board a vessel and ways of preventing the spread
- 11 Principles of shipboard hygiene, including adequate ventilation, healthy lifestyle, disinfection of potable water, food hygiene, and disposal of liquid and solid waste from a vessel
- 12 Legal issues surrounding drug administration on board a vessel
- 13 Body structures and functions relevant to possible injury and disease that may be encountered on board a vessel
- 14 Maritime communication techniques related to health care and receiving radio medical advice from shore-based advisers
- 15 Duties and responsibilities of the designated medical officer on board a vessel
- 16 Marine publications containing information on first aid and medical treatment on board a vessel

REQUIRED SKILLS

This describes the basic skills required for this unit.

- 1 Communicate effectively with others on matters related to the organisation and management of the provision of medical care on board a vessel
- 2 Read and interpret instructions, procedures and information relevant to the organisation and management of the provision of medical care on board a vessel
- 3 Work as a team with others on matters relevant to the organisation and management of the provision of medical care on board a vessel

REQUIRED SKILLS

- 4 Select and use appropriate communications equipment
- 5 Take appropriate initiatives related to the organisation and management of the provision of medical care on board a vessel
- 6 Interpret and apply applicable medical care practices and regulations
- 7 Modify activities dependent on differing contingencies, risk situations and environments
- 8 Identify and solve problems associated with the organisation and management of the provision of medical care on board a vessel and take appropriate action based on available information
- 9 Adapt to differences in vessels, medical and other equipment and related standard operating procedures
- 10 Select and use appropriate equipment required for the organisation and management of the provision of medical care on board a vessel

Evidence Guide

Evidence Guide

TDMMF607B ORGANISE AND MANAGE THE PROVISION OF MEDICAL CARE ON BOARD A VESSEL

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	Assessment must confirm appropriate knowledge and skills to: - a Take charge of typical medical emergencies on board a vessel - b Carry out routine medical procedures on board a vessel - c Carry out medical procedures as directed by shore-based medical advisers - d Identify typical medical problems and emergencies and take appropriate action
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Evidence Guide

TDMMF607B ORGANISE AND MANAGE THE PROVISION OF MEDICAL CARE ON BOARD A VESSEL

	- e Educate passengers and crew on shipboard health and hygiene - f Complete quarantine requirements when entering a port from overseas - g Communicate effectively with others during medical emergencies and health care - h Maintain medical records in accordance with company and regulatory requirements
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 providing medical care on board a vessel 2 identifying and evaluating medical problems and emergencies and taking appropriate courses of action 3 identifying and implementing improvements to medical care on board a vessel 4 applying aseptic and other precautionary techniques when carrying out medical procedures on board a vessel - c Shows evidence of application of relevant workplace procedures, including: 1 relevant sections of IMO STCW 95 Convention and Code and AMSA Marine Orders 2 ISM Code and associated vessel's safety management system and procedures 3 OH&S regulations and medical care policies and procedures 4 issue resolution procedures

Evidence Guide

TDMMF607B ORGANISE AND MANAGE THE PROVISION OF MEDICAL CARE ON BOARD A VESSEL

5 relevant medical and first aid instructions

Evidence Guide (continued)

TDMMF607B ORGANISE AND MANAGE THE PROVISION OF MEDICAL CARE ON BOARD A VESSEL

Evidence required for demonstration of consistent performance (continued) 2	6 shipboard safety procedures d Action is taken promptly to report and/or rectify injuries and medical incidents in accordance with established 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	Access is required to opportunities to: a participate in a range of role plays, case studies and other simulated practical and knowledge assessments that demonstrate the skills and knowledge to manage and coordinate the medical care of crew and passengers on board

Evidence Guide (continued)

TDMMF607B ORGANISE AND MANAGE THE PROVISION OF MEDICAL CARE ON BOARD A VESSEL

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| | vessels of 500 gross tonnage or more; and/or |
| b | assist in the coordination of medical care procedures on board an operational vessel |

Range Statement

Range Statement

TDMMF607B ORGANISE AND MANAGE THE PROVISION OF MEDICAL CARE ON BOARD A VESSEL

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 relevant maritime regulations and rules dealing with medical care on board a vessel
b. Work is performed:	1 relatively independently under broad operational requirements, with accountability and responsibility for self and others in achieving the prescribed outcomes
c. Work involves:	1 the application of a knowledge of first aid and medical techniques required to provide medical care for crew and/or passengers on board a vessel. Contribution to the planning and organisation of medical care on board a vessel is required

Range Statement

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| d. Work requires: | <ol style="list-style-type: none"> 1 significant judgement in planning and leadership functions related to the provision of medical care for crew and/or passengers on board vessels of 500 gross tonnage or more |
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2. WORKSITE ENVIRONMENT

a Vessel may include:	1 any commercial Australian or international vessel of 500 gross tonnage or more
b Medical care and procedures may be carried out:	1 by day or night in both normal and emergency situations 2 under any possible conditions of weather and loading 3 while underway or at anchor 4 during quarantine procedures when entering port
c Medical emergencies may include:	1 acute chest pain 2 acute respiratory conditions

Range Statement (continued)

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VARIABLE	SCOPE
c Medical emergencies may include: (continued)	3 acute abdominal pain 4 diabetes 5 seizures

Range Statement (continued)

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d Management of injuries on board vessel may include:	1	head injuries
	2	chest injuries
	3	haemorrhage
	4	shock
	5	spinal injuries
	6	fractures and dislocations
	7	cold injury and hypothermia
	8	inhalation, ingestion and skin or eye contact with industrial chemicals

e Diagnosis and management of infectious diseases may include:	1	typhoid
	2	cholera
	3	dysentery
	4	malaria
	5	heat exhaustion
	6	influenza
	7	pneumonia
	8	tonsillitis
	9	meningitis
	10	inguinal hernia

f Diagnosis and management of cardiovascular and central nervous system	1	angina pectoris
	2	coronary occlusion
	3	paroxysmal tachycardia

Range Statement (continued)

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disorders may include:

- 4 facial palsy
- 5 cerebral haemorrhage
- 6 cerebral thrombosis

Range Statement (continued)

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VARIABLE	SCOPE
g Diagnosis and management of sexually transmitted diseases may include:	1 urethral and urine smear tests 2 basic medical treatment for various sexually transmitted diseases 3 counselling
h Measures for the prevention of disease in seafarers may include:	1 immunisation and vaccination 2 methods for the prevention of malaria 3 precautions to be taken when in endemic zones for malaria and yellow fever 4 precautions and methods for the prevention of disease spread on board a vessel
i Documentation and records may include:	1 ISM Code safety management system plans, procedures, checklists and instructions 2 IMO STCW Convention and Code dealing with medical care on board a vessel 3 AMSA Marine Orders dealing with medical care on board a vessel

Range Statement (continued)

TDMMF607B ORGANISE AND MANAGE THE PROVISION OF MEDICAL CARE ON BOARD A VESSEL

- 4 The Ship Captain's Medical Guide
- 5 International Medical Guide for Ships
- 6 Medical Section of the International Code of Signals
- 7 Medical First Aid Guide for Use in Accidents involving Dangerous Goods
- 8 Marine Drug Guide
- 9 vessel's log
- 10 vessel medical records
- 11 shipboard patients' health records
- 12 drug register
- 13 quarantine records and documentation
- 14 company procedures concerning medical care on board a vessel
- 15 instructions of relevant maritime, health and quarantine authorities related to the medical care of crew and passengers on board a vessel
- 16 relevant Australian and international standards

Range Statement (continued)

TDMMF607B ORGANISE AND MANAGE THE PROVISION OF MEDICAL CARE ON BOARD A VESSEL

VARIABLE	SCOPE
j Applicable legislation, regulations and codes may include:	1 IMO STCW 95 Convention and Code related to vessels of 500 gross tonnage or more 2 relevant sections of AMSA Marine Orders 3 ISM Code safety management system

Range Statement (continued)**TDMMF607B ORGANISE AND MANAGE THE PROVISION OF MEDICAL CARE ON BOARD A VESSEL**

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| 4 | relevant international, Commonwealth, State and Territory health and quarantine regulations |
| 5 | 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 may be assessed in conjunction with other units that relate to the functions of the occupation(s) concerned.