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TP 13008 E

**TRAINING STANDARDS FOR MARINE FIRST AID
AND MARINE MEDICAL CARE**

**MARINE SAFETY DIRECTORATE
TRANSPORT CANADA**

OTTAWA

1997

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First Aid training has been a pre-requisite for Canadian Certificates of Competency for a long time. International Convention on Standards of Training, Certification and Watchkeeping for Seafarers (STCW), 1978 specified the First Aid training requirements for certificated officers. For Junior officers; this included ability to provide medical aid and take effective action in case of injury or illness likely to occur on board ships while Senior officers were required to have a thorough knowledge in the use of the International Medical Guide and Medical First Aid Guide for dealing with incidents involving dangerous goods. The STCW , 1978 convention as amended in 1995 by Regulations VI/1, VI/4 and AVI/1, AVI/4 of the code is more specific in the requirement of minimum standard of competence in medical first aid and medical care.

As signatory to the STCW convention, Canada is obliged to ensure that seafarers responsible to provide medical first aid and medical care on board Canadian ships, are suitably trained and qualified to render such assistance.

The Marine Safety Directorate of Transport Canada wishes to thank St. John Ambulance, Ottawa, for their valuable assistance in developing this program.




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COURSE APPROVAL CONDITIONS

National organizations seeking Transport Canada (TC), Marine Safety approval to conduct courses in Marine Basic First Aid and Advanced First Aid and Marine Medical Care must meet the following conditions:

- Organizations presently holding authorization from Labour Canada (OSH) to deliver Basic First Aid (8 hours) and Advanced (Standard) First Aid (16 hours) will receive Transport Canada (TC), Marine Safety (MS) approval to deliver courses as contained in this document on submission of an application together with course curriculum and current authorization. To obtain TC, Marine Safety approval for delivering Marine Medical Care training as contained in this document, organizations shall be required to submit to Marine Safety the course curriculum for review before approval may be granted.
- Comply with the program as outlined in this document.
- Provide commitment that program will be available in major centres where applicable with marine colleges as a focal point.
- Instructors delivering programs must be qualified and accredited by the organization requesting approval.
- Organization, to supply TC, Marine Safety copies of their certificates indicating the period of validity of the certificate.
- On - going approval from TC, Marine Safety must be obtained by the organization before 31 August of each year.

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1 MARINE BASIC FIRST AID

NUMBER OF TRAINEES IN A COURSE

The number of trainees in a course must not exceed 12 when under the supervision of one accredited instructor.


COURSE GOAL, SUBJECTS AND LECTURE TIME INCLUDING EXERCISES

GOAL: Every seafarer who is designated to apply immediate basic first aid in the event of accident or illness on board to demonstrate competence to undertake the tasks, duties and responsibilities described in the subjects listed below.

SUBJECTS LECTURE TIME INCLUDING EXERCISES


1.1	ASSESSMENT OF NEEDS OF CASUALTIES and threats to own safety	1 hour
1.2	APPRECIATION OF BODY STRUCTURE AND FUNCTIONS	1 hour
1.3	UNDERSTANDING OF IMMEDIATE MEASURES TO BE TAKEN IN CASES OF EMERGENCY, including the ability to:	
1.3.1	POSITION CASUALTY	0.5 hours
1.3.2	APPLY RESUSCITATION TECHNIQUES	1.5 hours
1.3.3	CONTROL BLEEDING	1.0 hour
1.3.4	APPLY APPROPRIATE MEASURES OF BASIC SHOCK MANAGEMENT	0.5 hours
1.3.5	APPLY APPROPRIATE MEASURES IN EVENT OF BURNS, AND SCALDS, including accidents caused by electrical current	0.5 hours
1.3.6	RESCUE AND TRANSPORT A CASUALTY	0.5 hours
1.3.7	IMPROVISE BANDAGES AND USE MATERIALS IN EMERGENCY KIT	0.5 hours
1.4	EXAMINATION	1 hour

Total: 8 hours

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**MARINE BASIC FIRST AID
FUNCTION: MEDICAL FIRST AID AT THE SUPPORT LEVEL**

Column 1	Column 2	Column 3	Column 4
COMPETENCE	KNOWLEDGE, UNDERSTANDING AND PROFICIENCY	METHODS OF DEMONSTRATING COMPETENCE	CRITERIA FOR EVALUATING COMPETENCE
Apply immediate basic first aid in the event of accident or illness on board	<p>1.1 ASSESSMENT OF NEEDS OF CASUALTIES and threats to own safety</p> <ul style="list-style-type: none"> • Apply the principles of first aid • Apply the principles of emergency scene management • Examine and assess a casualty • Provide follow up care • Apply the principles of safety universal precautions <p>1.2 APPRECIATION OF BODY STRUCTURE AND FUNCTIONS</p> <p>Identify regions of the body</p> <ul style="list-style-type: none"> • Identify and name principal bones • Identify main organs of the chest and the functions of each • Identify parts of the nervous system and the functions of each • Identify parts of the respiratory system and the functions of each • Identify parts of the circulatory system and the functions of each 	Assessment of evidence obtained from practical instruction	<p>The identification of probable cause, nature and extent of injuries is prompt, complete and conforms to correct first aid practice.</p> <p>Risk of harm to self and others is minimized at all times.</p> <p>Treatment of injuries and the patients condition is appropriate, conforms to the recognized first aid practice and international guidelines.</p>

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**MARINE BASIC FIRST AID
FUNCTION: MEDICAL FIRST AID AT THE SUPPORT LEVEL**

Column 1	Column 2	Column 3	Column 4
COMPETENCE	KNOWLEDGE, UNDERSTANDING AND PROFICIENCY	METHODS OF DEMONSTRATING COMPETENCE	CRITERIA FOR EVALUATING COMPETENCE
Apply immediate basic first aid in the event of accident or illness on board	<p>1.3 UNDERSTANDING OF IMMEDIATE MEASURES TO BE TAKEN IN CASES OF EMERGENCY, including the ability to:</p> <p>1.3.1 POSITION CASUALTY Ability to:</p> <ul style="list-style-type: none"> . Assess the need for moving a casualty . Position a casualty from prone (lying on stomach) to supine (lying on back) . Position the casualty in the recovery position and provide follow up care <p>1.3.2 APPLY RESUSCITATION TECHNIQUES Ability to:</p> <ul style="list-style-type: none"> • Recognize respiratory emergencies • Perform the mouth to mouth direct method of artificial respiration • Perform the mouth to mouth direct method of artificial respiration for a casualty with a suspected neck injury • Provide follow up care for asphyxia • Perform the mouth to nose direct method of artificial respiration • Perform the mouth to stoma direct method of artificial respiration 	Assessment of evidence obtained from practical instruction	<p>The identification of probable cause, nature and extent of injuries is prompt, complete and conforms to correct first aid practice.</p> <p>Risk of harm to self and others is minimized at all times.</p> <p>Treatment of injuries and the patients condition is appropriate, conforms to the recognized first aid practice and international guidelines.</p>

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**MARINE BASIC FIRST AID
FUNCTION: MEDICAL FIRST AID AT THE SUPPORT LEVEL**

Column 1	Column 2	Column 3	Column 4
COMPETENCE	KNOWLEDGE, UNDERSTANDING AND PROFICIENCY	METHODS FOR DEMONSTRATING COMPETENCE	CRITERIA FOR EVALUATING COMPETENCE
Apply immediate basic first aid in the event of accident or illness on board.	<ul style="list-style-type: none"> • Recognize choking and understanding of the measures to prevent choking <ul style="list-style-type: none"> – partial obstruction – good air exchange – poor air exchange – complete obstruction • Provide first aid for a choking adult <ul style="list-style-type: none"> – conscious casualty – conscious casualty who becomes unconscious – casualty found unconscious 1.3.3 CONTROL BLEEDING Ability to: <ul style="list-style-type: none"> • Use dressings, bandages and slings in first aid procedures • Take measures to prevent further contamination and infection of wounds • Recognize external and internal bleeding • Control bleeding from wounds, nose, ear, scalp, tongue and cheek • Provide first aid for internal bleeding 	Assessment of evidence obtained from practical instruction	<p>The identification of probable cause, nature and extent of injuries is prompt, complete and conforms to correct first aid practice.</p> <p>Risk of harm to self and others is minimized at all times.</p> <p>Treatment of injuries and the patients condition is appropriate, conforms to the recognized first aid practice and international guidelines.</p>

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**MARINE BASIC FIRST AID
FUNCTION: MEDICAL FIRST AID AT THE SUPPORT LEVEL**

Column 1	Column 2	Column 3	Column 4
COMPETENCE	KNOWLEDGE, UNDERSTANDING AND PROFICIENCY	METHODS FOR DEMONSTRATING COMPETENCE	CRITERIA FOR EVALUATING COMPETENCE
Apply immediate basic first aid in the event of accident or illness on board.	<p>1.3.4 APPLY APPROPRIATE MEASURES OF BASIC SHOCK MANAGEMENT: Ability to:</p> <ul style="list-style-type: none"> • Recognize shock • Provide first aid to lessen the severity of shock • Recognize fainting • Recognize levels of consciousness • Provide first aid for fainting and unconsciousness <p>1.3.5 APPLY APPROPRIATE MEASURES IN EVENT OF BURNS AND SCALDS, including accidents caused by electrical current: Ability to:</p> <ul style="list-style-type: none"> • Take measures to prevent heat, electric, chemical and radiation burns • Recognize burns, - 1st degree, - 2nd degree, - 3rd degree • Assess extent of burned area • Provide first aid for burns <p>1.3.6 RESCUE AND TRANSPORT A CASUALTY: Ability to:</p> <ul style="list-style-type: none"> • Recognize the principles of safety • Move a casualty away from immediate hazards • Perform rescue carries • appropriate to the incident 	Assessment of evidence obtained from practical instruction	<p>The identification of probable cause, nature and extent of injuries is prompt, complete and conforms to correct first aid practice.</p> <p>Risk of harm to self and others is minimized at all times.</p> <p>Treatment of injuries and the patients condition is appropriate, conforms to the recognized first aid practice and international guidelines.</p>

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FUNCTION: MEDICAL FIRST AID AT THE SUPPORT LEVEL**

Column 1	Column 2	Column 3	Column 4
COMPETENCE	KNOWLEDGE, UNDERSTANDING AND PROFICIENCY	METHODS FOR DEMONSTRATING COMPETENCE	CRITERIA FOR EVALUATING COMPETENCE
Apply immediate basic first aid in the event of accident or illness on board.	<p>1.3.7 IMPROVISE BANDAGES AND USE MATERIALS IN EMERGENCY KIT: Ability to:</p> <ul style="list-style-type: none"> • Awareness of the location of first aid kits and knowledge of its contents • Ability to use correctly and quickly • Importance of routine checks • Recognize readily available items and materials that might be appropriately used as bandages <p>1.4 EXAMINATION</p>	Assessment of evidence obtained from practical instruction	<p>The identification of probable cause, nature and extent of injuries is prompt, complete and conforms to correct first aid practice.</p> <p>Risk of harm to self and others is minimized at all times.</p> <p>Treatment of injuries and the patients condition is appropriate, conforms to the recognized first aid practice and international guidelines.</p>

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**2 MARINE ADVANCED FIRST AID
(TO INCLUDE ALL ELEMENTS OF MARINE BASIC FIRST AID)**

NUMBER OF TRAINEES IN A COURSE


The number of trainees in a course must not exceed 12 when under the supervision of one accredited instructor.

COURSE GOAL, SUBJECTS AND LECTURE TIME INCLUDING EXERCISES

GOAL: Every seafarer who is designated to apply immediate advanced first aid in the event of an accident or illness on board to demonstrate competence to undertake the tasks, duties and responsibilities described in the subjects listed below.


SUBJECTS	LECTURE TIME INCLUDING EXERCISES
2.1 FIRST AID KIT	0.5 hours
2.2 BODY STRUCTURE AND FUNCTION	1.5 hours
2.3 TOXICOLOGICAL HAZARDS	1 hour
2.4 EXAMINATION OF CASUALTY OR PATIENT	3 hours
2.5 SPINAL INJURIES	1 hour
2.6 BURNS, SCALDS and effects of heat and cold	1 hour
2.7 FRACTURES, DISLOCATIONS and MUSCULAR INJURIES	1.5 hours
2.8 MEDICAL CARE OF RESCUED PERSONS	1 hour
2.9 RADIO MEDICAL ADVICE	0.5 hours
2.10 PHARMACOLOGY	0.5 hours
2.11 STERILIZATION	0.5 hours
2.12 CARDIAC ARREST, DROWNING AND ASPHYXIA	3 hours
2.13 EXAMINATION	1 hour

Total: 16 hours

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**MARINE ADVANCED FIRST AID
FUNCTION: MEDICAL FIRST AID AT THE OPERATIONAL LEVEL**

Column 1	Column 2	Column 3	Column
COMPETENCE	KNOWLEDGE, UNDERSTANDING AND PROFICIENCY	METHODS OF DEMONSTRATING COMPETENCE	CRITERIA FOR EVALUATING COMPETENCE
Apply immediate Advanced first aid in the event of accident or illness on board	<p>2.1 FIRST AID KIT</p> <ul style="list-style-type: none"> • Awareness of their locations and knowledge of its contents • Ability to use correctly & quickly • Importance of routine checks <p>2.2 BODY STRUCTURE AND FUNCTION: Ability to:</p> <ul style="list-style-type: none"> • Identify regions of the body • Identify and name principal bones and muscles • Identify location of major arteries and veins • Identify main organs of the chest and abdomen and the functions of each • Identify parts of the nervous system and the functions of each • Identify parts of the respiratory system and the functions of each • Identify parts of the circulatory system and the functions of each - Identify parts of reproductive system and the functions of each - Identify structures of the skin and related elements 	Assessment of evidence obtained from practical instruction	<p>The identification of probable cause, nature and extent of injuries is prompt, complete and conforms to correct first aid practice.</p> <p>Risk of harm to self and others is minimized at all times.</p> <p>Treatment of injuries and the patients condition is appropriate, conforms to the recognized first aid practice and international guidelines.</p>

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Column 1	Column 2	Column 3	Column 4
COMPETENCE	KNOWLEDGE, UNDERSTANDING AND PROFICIENCY	METHODS OF DEMONSTRATING COMPETENCE	CRITERIA FOR EVALUATING COMPETENCE
Apply immediate Advanced first aid in the event of accident or illness on board	<p>2.3 TOXICOLOGICAL HAZARDS Knowledge of:</p> <ul style="list-style-type: none"> ● Potentially toxic substances ● WHMIS Class identification system and the information available ● Material Safety Data Sheets (MSDS), their location and the type of information available ● Proper safeguards to be followed in the use and storage of dangerous goods carried on board ● Characteristics and dangers associated with confined spaces ● Limitations of responsibilities and abilities when dealing with confined spaces ● Appropriate precautions and procedures for incidents in and around confined spaces <p>Ability to:</p> <ul style="list-style-type: none"> ● Provide first aid according to the information provided 	Assessment of evidence obtained from practical instruction	<p>The identification of probable cause, nature and extent of injuries is prompt, complete and conforms to correct first aid practice.</p> <p>Risk of harm to self and others is minimized at all times.</p> <p>Treatment of injuries and the patients condition is appropriate, conforms to the recognized first aid practice and international guidelines.</p>

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Column 1	Column 2	Column 3	Column 4
COMPETENCE	KNOWLEDGE, UNDERSTANDING AND PROFICIENCY	METHODS OF DEMONSTRATING COMPETENCE	CRITERIA FOR EVALUATING COMPETENCE
Apply immediate Advanced first aid in the event of accident or illness on board	<p>2.4 EXAMINATION OF CASUALTY OR PATIENT</p> <ul style="list-style-type: none"> • Ability to: Conduct a systematic and complete: Primary assessment (Airway, Breathing, Circulation), and Secondary assessment (History, vital signs, head-to-toe examination including appropriate record keeping of findings and action taken) • Draw conclusions by process of elimination and comparison • Recognize feigning of illness • Recognize airway obstruction • Provide appropriate care for obstructed airways • Recognize breathing emergencies • Provide artificial respiration for casualty without suspected head/spinal injury • Provide artificial respiration for casualty with suspected head/spinal injury • Oxygen administration including intubation • Recognize signs and symptoms of angina/heart attack • Recognize signs and symptoms of cardiac arrest • Demonstrate one rescuer CPR • Demonstrate two rescuer CPR 	Assessment of evidence obtained from practical instruction	<p>The identification of probable cause, nature and extent of injuries is prompt, complete and conforms to correct first aid practice.</p> <p>Risk of harm to self and others is minimized at all times.</p> <p>Treatment of injuries and the patients condition is appropriate, conforms to the recognized first aid practice and international guidelines.</p>

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Column 1	Column 2	Column 3	Column 4
COMPETENCE	KNOWLEDGE, UNDERSTANDING AND PROFICIENCY	METHODS OF DEMONSTRATING COMPETENCE	CRITERIA FOR EVALUATING COMPETENCE
Apply immediate Advanced first aid in the event of accident or illness on board	<p>2.5 SPINAL INJURIES Ability to:</p> <ul style="list-style-type: none"> ● Recognize signs of possible head/spinal injury based on mechanism of injury ● Take precautions to avoid further damage where head/spinal injuries are suspected ● Provide suitable care <p>2.6 BURNS, SCALDS and effects of heat and cold Ability to:</p> <ul style="list-style-type: none"> ● Identify burns according to type (e.g. heat, electrical, chemical, radiation) ● Classify degree of burn ● Take appropriate action according to the type of burn ● Assess burned area and determine the seriousness of the burn 	Assessment of evidence obtained from practical instruction	<p>The identification of probable cause, nature and extent of injuries is prompt, complete and conforms to correct first aid practice.</p> <p>Risk of harm to self and others is minimized at all times.</p> <p>Treatment of injuries and the patients condition is appropriate, conforms to the recognized first aid practice and international guidelines.</p>

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Column 1	Column 2	Column 3	Column 4
COMPETENCE	KNOWLEDGE, UNDERSTANDING AND PROFICIENCY	METHODS OF DEMONSTRATING COMPETENCE	CRITERIA FOR EVALUATING COMPETENCE
Apply immediate Advanced first aid in the event of accident or illness on board	<p>2.7 FRACTURES, DISLOCATIONS and MUSCULAR INJURIES</p> <p>Ability to:</p> <ul style="list-style-type: none"> • Distinguish various types of fractures (closed/open, simple/compound /severe) • Verify from indications that a bone is broken • Stop bleeding from open fracture • Relieve pain and treat fractures • Recognize dislocations from signs and prevent movement - Recognize close/open dislocations • Prevent movement in affected area by suitable immobilization and take precautions during transportation • Recognize a muscular injury - Treat muscular injuries 	Assessment of evidence obtained from practical instruction	<p>The identification of probable cause, nature and extent of injuries is prompt, complete and conforms to correct first aid practice.</p> <p>Risk of harm to self and others is minimized at all times.</p> <p>Treatment of injuries and the patients condition is appropriate, conforms to the recognized first aid practice and international guidelines.</p>

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Column 1	Column 2	Column 3	Column 4
COMPETENCE	KNOWLEDGE, UNDERSTANDING AND PROFICIENCY	METHODS OF DEMONSTRATING COMPETENCE	CRITERIA FOR EVALUATING COMPETENCE
Apply immediate Advanced first aid in the event of accident or illness on board	<p>2.8 MEDICAL CARE OF RESCUED PERSONS Ability to:</p> <ul style="list-style-type: none"> • Handle immediate medical problems • Treat cold exposure • Treat for oil contamination, dehydration and malnutrition • Treat for hypothermia • Treat for seasickness, sunburn, heat exhaustion, cramps and sunstroke • Provide follow up care <p>2.9 RADIO MEDICAL ADVICE Ability to:</p> <ul style="list-style-type: none"> • Prepare information before asking for advice • Provide information to advisor and record exchange of information • Repeat information to advisor • Maintain all records on board • Make all arrangements for helicopter or ship to ship transfer 	Assessment of evidence obtained from practical instruction	<p>The identification of probable cause, nature and extent of injuries is prompt, complete and conforms to correct first aid practice.</p> <p>Risk of harm to self and others is minimized at all times.</p> <p>Treatment of injuries and the patients condition is appropriate, conforms to the recognized first aid practice and international guidelines.</p>

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**MARINE ADVANCED FIRST AID
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Column 1	Column 2	Column 3	Column 4
COMPETENCE	KNOWLEDGE, UNDERSTANDING AND PROFICIENCY	METHODS OF DEMONSTRATING COMPETENCE	CRITERIA FOR EVALUATING COMPETENCE
Apply immediate Advanced first aid in the event of accident or illness on board	<p>2.10 PHARMACOLOGY Knowledge of:</p> <ul style="list-style-type: none"> • Medications carried on board • Qualifications required for administration of each • Side effects and cautions related to specific medications available on board <p>2.11 STERILIZATION Ability to:</p> <ul style="list-style-type: none"> • Apply knowledge of universal precautions • Take precautions against infecting the wound <p>2.12 CARDIAC ARREST, DROWNING AND ASPHYXIA Ability to:</p> <ul style="list-style-type: none"> • Provide immediate first aid to casualty in a drowning emergency • Recognize a stroke/TIA • Provide first aid for a stroke/TIA • Recognize signs and symptoms of rapid and congestive heart action • Recognize heart attack • Provide CPR <p>2.13 EXAMINATION</p>	Assessment of evidence obtained from practical instruction	<p>The identification of probable cause, nature and extent of injuries is prompt, complete and conforms to correct first aid practice.</p> <p>Risk of harm to self and others is minimized at all times.</p> <p>Treatment of injuries and the patients condition is appropriate, conforms to the recognized first aid practice and international guidelines.</p>

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CHAPTER

3 MARINE MEDICAL CARE (prerequisite of MARINE ADVANCED FIRST AID)

This level of training may be presented supplementary to the Marine Advanced program, or as a combined program facilitating the training of any individual to the level of Marine Medical Care without prerequisite requirements. A combined program will include content of both courses for a total of 66 hours.

NUMBER OF TRAINEES IN A COURSE

The number of trainees in a course must not exceed 12 when under the supervision of one accredited instructor.


COURSE GOAL, SUBJECTS AND LECTURE TIME INCLUDING EXERCISES

GOAL: Every seafarer who is designated to apply medical care in the event of an accident or illness on board to demonstrate competence to undertake the tasks, duties and responsibilities described in the subjects listed below.

SUBJECTS

LECTURE TIME INCLUDING EXERCISES


3.1	CARE OF CASUALTY involving:	20 hours
	3.1.1 Head/spinal injuries	(3 hrs)
	3.1.2 Injuries to ear, nose, throat and eyes	(2 hrs)
	3.1.3 External and internal bleeding	(1 hr)
	3.1.4 Burns, scalds and frostbite	(2 hrs)
	3.1.5 Fractures, dislocations and muscular injuries	(3 hrs)
	3.1.6 Wounds, wound healing and infection	(2 hrs)
	3.1.7 Pain relief	(1 hr)
	3.1.8 Techniques of sewing and clamping	(1 hr)
	3.1.9 Management of acute abdominal conditions	(2 hrs)
	3.1.10 Minor surgical treatment	(1 hr)
	3.1.11 Dressings and bandaging	(2 hrs)
3.2	ASPECTS OF NURSING	2 hours
	3.2.1 General principles	
	3.2.2 Nursing care	
3.3	DISEASES including:	3 hours
	3.3.1 Medical conditions and emergencies	
	3.3.2 Sexually transmitted diseases	
	3.3.3 Tropical and infectious diseases	
3.4	ALCOHOL AND DRUG ABUSE	2 hours
3.5	DENTAL CARE	1 hour
3.6	GYNECOLOGY, PREGNANCY AND CHILDBIRTH	2 hours
3.7	MEDICAL CARE OF RESCUED PERSONS	5 hours

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3.8	DEATH AT SEA	1 hour
3.9	HYGIENE	1 hour
3.10	DISEASE PREVENTION including:	1 hour
	3.10.1 Disinfection, disinfestation, deratting	
	3.10.2 Vaccinations	
3.11	KEEPING RECORDS AND COPIES OF APPLICABLE REGULATIONS	2 hours
	3.11.1 Keeping medical records	
	3.11.2 International and national maritime medical regulations	
3.12	EXTERNAL ASSISTANCE, including:	2 hours
	3.12.1 Radio medical advice	
	3.12.2 Transportation of the ill and injured, including helicopter evacuation	
	3.12.3 Medical care of sick seafarers involving co-operation with port health authorities or outpatient ward in port	
3.13	EXAMINATION	8 hours


Total: 50 hours

Note: Program content for this level of training will be structured to facilitate flexibility in program delivery (e.g. the 50 hour program may be delivered in two separate but related teaching blocks).

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COMPETENCE	KNOWLEDGE, UNDERSTANDING AND PROFICIENCY	METHODS OF DEMONSTRATING COMPETENCE	CRITERIA FOR EVALUATING COMPETENCE
Apply medical care to the sick and injured while they remain on board.	<p>3.1 CARE OF CASUALTY, involving:</p> <p>3.1.1 HEAD/SPINAL INJURIES Ability to:</p> <ul style="list-style-type: none"> ● Assess the casualty's level of responsiveness ● Describe the significance of casualty's level of consciousness in assessing the seriousness of the casualty's condition ● Assess seriousness of head or spinal injury based on mechanism of injury and signs and symptoms ● Select, size and position commercial cervical collar ● Determine the most appropriate means of transportation according to the situation, the casualty's condition and resources available ● Package and prepare casualty for transport according to established protocols 	<p>Assessment of evidence obtained from practical instruction and demonstration.</p> <p>Where practicable, approved practical experience at a hospital or similar establishment</p>	<p>Identification of symptoms is based on the concept of clinical examination and medical history.</p> <p>Protection against infection and spread of diseases is complete and effective.</p> <p>Treatment of injury or condition is appropriate and conforms to accepted medical practice and relevant national and international medical guides.</p> <p>The dosage and application of drugs and medication complies with manufacturers' recommendations and accepted medical practice.</p> <p>The significance of changes in patients' condition is promptly recognized.</p> <p>Personal attitude is calm, confident and reassuring.</p>

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COMPETENCE	KNOWLEDGE, UNDERSTANDING AND PROFICIENCY	METHODS OF DEMONSTRATING COMPETENCE	CRITERIA FOR EVALUATING COMPETENCE
Apply medical care to the sick and injured while they remain on board	<p>3.1.2 INJURIES TO EAR, NOSE, THROAT AND EYES Ability to:</p> <ul style="list-style-type: none"> ● Assess injuries to ears, nose and throat and determine the seriousness of each according to signs and symptoms ● Determine care appropriate to common injuries to ear, nose and throat ● Assess types of eye injury and related dangers of same ● Assess situations where removal of foreign objects in the eye (or area around the eye) should not be attempted ● Provide appropriate care for removal of foreign objects from the eye ● Provide appropriate care for injury to the eye or the immediate area around the eye ● Provide appropriate care for burns to the eye(s) 	<p>Assessment of evidence obtained from practical instruction and demonstration.</p> <p>Where practicable, approved practical experience at a hospital or similar establishment</p>	<p>Identification of symptoms is based on the concept of clinical examination and medical history.</p> <p>Protection against infection and spread of diseases is complete and effective.</p> <p>Treatment of injury or condition is appropriate and conforms to accepted medical practice and relevant national and international medical guides.</p> <p>The dosage and application of drugs and medication complies with manufacturers' recommendations and accepted medical practice.</p> <p>The significance of changes in patients' condition is promptly recognized.</p> <p>Personal attitude is calm, confident and reassuring.</p>

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COMPETENCE	KNOWLEDGE, UNDERSTANDING AND PROFICIENCY	METHODS OF DEMONSTRATING COMPETENCE	CRITERIA FOR EVALUATING COMPETENCE
Apply medical care to the sick and injured while they remain on board	<p>3.1.3 EXTERNAL AND INTERNAL BLEEDING Ability to:</p> <ul style="list-style-type: none"> ● Recognize external bleeding and provide appropriate care ● Recognize internal bleeding and provide appropriate care <p>3.1.4 BURNS, SCALDS and FROSTBITE Ability to:</p> <ul style="list-style-type: none"> ● Recognize burns according to type heat, electrical, chemical, radiation ● Classify burns by degree first, second or third ● Assess burned area and determine seriousness of injury based on degree and area involved ● Recognize special considerations and types of burns ● Provide appropriate care for burns according to type ● Recognize frostbite and determine seriousness of the casualty's condition based on signs and symptoms ● Provide care appropriate to the nature of the frostbite 	<p>Assessment of evidence obtained from practical instruction and demonstration.</p> <p>Where practicable, approved practical experience at a hospital or similar establishment</p>	<p>Identification of symptoms is based on the concept of clinical examination and medical history.</p> <p>Protection against infection and spread of diseases is complete and effective.</p> <p>Treatment of injury or condition is appropriate and conforms to accepted medical practice and relevant national and international medical guides.</p> <p>The dosage and application of drugs and medication complies with manufacturers' recommendations and accepted medical practice.</p> <p>The significance of changes in patients' condition is promptly recognized.</p> <p>Personal attitude is calm, confident and reassuring.</p>

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COMPETENCE	KNOWLEDGE, UNDERSTANDING AND PROFICIENCY	METHODS OF DEMONSTRATING COMPETENCE	CRITERIA FOR EVALUATING COMPETENCE
Apply medical care to the sick and injured while they remain on board	<p>3.1.5 FRACTURES, DISLOCATIONS AND MUSCULAR INJURIES Ability to:</p> <ul style="list-style-type: none"> • Identify types of fractures (open/closed, simple/compound) • Control bleeding from an open fracture • Provide appropriate care for suspected sprains and fractures by preventing movement and providing support to the injured area during transportation • Provide appropriate care for suspected dislocations by preventing movement and providing support to the injured area during transportation • Identify muscle strain • Provide appropriate care for muscle strain <p>3.1.6 WOUNDS, WOUND HEALING AND INFECTION Ability to:</p> <ul style="list-style-type: none"> • Use commercial and improvised materials as effective dressings and bandages • Provide care for wounds and bleeding including eyes, ears, nose, mouth, knocked out teeth, and crush injury 	<p>Assessment of evidence obtained from practical instruction and demonstration.</p> <p>Where practicable, approved practical experience at a hospital or similar establishment</p>	<p>Identification of symptoms is based on the concept of clinical examination and medical history.</p> <p>Protection against infection and spread of diseases is complete and effective.</p> <p>Treatment of injury or condition is appropriate and conforms to accepted medical practice and relevant national and international medical guides.</p> <p>The dosage and application of drugs and medication complies with manufacturers' recommendations and accepted medical practice.</p> <p>The significance of changes in patients' condition is promptly recognized.</p> <p>Personal attitude is calm, confident and reassuring.</p>

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COMPETENCE	KNOWLEDGE, UNDERSTANDING AND PROFICIENCY	METHODS OF DEMONSTRATING COMPETENCE	CRITERIA FOR EVALUATING COMPETENCE
Apply medical care to the sick and injured while they remain on board	<ul style="list-style-type: none"> ● Describe the physiological state of shock and its importance in giving care to any casualty who is suffering illness or injury ● Identify signs and symptoms of shock ● Provide appropriate care for shock considering the nature of associate illness or injuries <p>3.1.7 PAIN RELIEF Knowledge of:</p> <ul style="list-style-type: none"> ● Medications available on board and qualifications required for administration of each in the case of on board emergencies ● Appropriate symptom relief available on board (e.g. administration of ASA, glucose, nitroglycerin) including pain relief ● Appropriate medications and procedures for administration of same by subcutaneous injection ● Appropriate medications and procedures for administration of same by intramuscular injection ● Appropriate medications and procedures for administration of same by intravenous injection ● Appropriate medications and procedures for administration of vaccinations 	<p>Assessment of evidence obtained from practical instruction and demonstration.</p> <p>Where practicable, approved practical experience at a hospital or similar establishment</p>	<p>Identification of symptoms is based on the concept of clinical examination and medical history.</p> <p>Protection against infection and spread of diseases is complete and effective.</p> <p>Treatment of injury or condition is appropriate and conforms to accepted medical practice and relevant national and international medical guides.</p> <p>The dosage and application of drugs and medication complies with manufacturers' recommendations and accepted medical practice.</p> <p>The significance of changes in patients' condition is promptly recognized.</p> <p>Personal attitude is calm, confident and reassuring.</p>

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COMPETENCE	KNOWLEDGE, UNDERSTANDING AND PROFICIENCY	METHODS OF DEMONSTRATING COMPETENCE	CRITERIA FOR EVALUATING COMPETENCE
Apply medical care to the sick and injured while they remain on board	<p>3.1.8 TECHNIQUES OF SEWING AND CLAMPING Knowledge of:</p> <ul style="list-style-type: none"> ● Basic sewing and clamping techniques <p>3.1.9 MANAGEMENT OF ACUTE ABDOMINAL CONDITIONS Ability to:</p> <ul style="list-style-type: none"> ● Recognize acute abdominal distress ● Possible causes of acute abdominal distress including signs and symptoms ● Appropriate care for acute abdominal distress <p>3.1.10 MINOR SURGICAL TREATMENT Knowledge of:</p> <ul style="list-style-type: none"> ● Importance of cleanliness and sterilization ● Procedures for ensuring cleanliness and sterilization of equipment and materials ● Surgical equipment available on board and proper use of same <p>3.1.11 DRESSINGS AND BANDAGING Ability to:</p> <ul style="list-style-type: none"> ● Use specialized dressings and bandages in appropriate situations 	<p>Assessment of evidence obtained from practical instruction and demonstration.</p> <p>Where practicable, approved practical experience at a hospital or similar establishment</p>	<p>Identification of symptoms is based on the concept of clinical examination and medical history.</p> <p>Protection against infection and spread of diseases is complete and effective.</p> <p>Treatment of injury or condition is appropriate and conforms to accepted medical practice and relevant national and international medical guides.</p> <p>The dosage and application of drugs and medication complies with manufacturers' recommendations and accepted medical practice.</p> <p>The significance of changes in patients' condition is promptly recognized.</p> <p>Personal attitude is calm, confident and reassuring.</p>

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Column	Column 2	Column 3	Column 4
COMPETENCE	KNOWLEDGE, UNDERSTANDING AND PROFICIENCY	METHODS OF DEMONSTRATING COMPETENCE	CRITERIA FOR EVALUATING COMPETENCE
Apply medical care to the sick and injured while they remain on board	<p>3.2 ASPECTS OF NURSING Knowledge of procedures and protocols relating to:</p> <p>3.2.1 GENERAL PRINCIPLES</p> <ul style="list-style-type: none"> ● Maintain a nursing station <p>3.2.2 NURSING CARE</p> <ul style="list-style-type: none"> ● Recognize feigning illness ● Traumatic incident stress ● Responsibilities regarding care for existing medical conditions ● Ongoing care for injury/illness <p>3.3 DISEASES, including:</p> <p>3.3.1 MEDICAL CONDITIONS AND EMERGENCIES Knowledge of conditions and appropriate care for emergencies involving:</p> <ul style="list-style-type: none"> ● Diabetes ● Epilepsy ● Respiratory conditions (e.g. asthma, emphysema) ● Motion sickness (seasickness) ● Contagious diseases (e.g. German measles, chicken pox, scarlet fever, TB, yellow fever) ● Hepatitis ● Resources outlining appropriate care for various other conditions 	<p>Assessment of evidence obtained from practical instruction and demonstration.</p> <p>Where practicable, approved practical experience at a hospital or similar establishment</p>	<p>Identification of symptoms is based on the concept of clinical examination and medical history.</p> <p>Protection against infection and spread of diseases is complete and effective.</p> <p>Treatment of injury or condition is appropriate and conforms to accepted medical practice and relevant national and international medical guides.</p> <p>The dosage and application of drugs and medication complies with manufacturers' recommendations and accepted medical practice.</p> <p>The significance of changes in patients' condition is promptly recognized.</p> <p>Personal attitude is calm, confident and reassuring.</p>

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COMPETENCE	KNOWLEDGE, UNDERSTANDING AND PROFICIENCY	METHODS OF DEMONSTRATING COMPETENCE	CRITERIA FOR EVALUATING COMPETENCE
Apply medical care to the sick and injured while they remain on board	<p>3.3.2 SEXUALLY TRANSMITTED DISEASES Knowledge of conditions and appropriate care for emergencies involving:</p> <ul style="list-style-type: none"> • Sexually transmitted diseases <p>3.3.3 TROPICAL AND INFECTIOUS DISEASES Knowledge of conditions and appropriate care for emergencies involving:</p> <ul style="list-style-type: none"> • Tropical diseases including: • Identify types of poisons based routes of entry • Identify potentially serious sources of insect and animal bites/stings • Provide appropriate care for suspected exposure to insect and animal bites and stings <p>3.4 ALCOHOL AND DRUG ABUSE Ability to:</p> <ul style="list-style-type: none"> • Recognize drug abuse • Understand responsibility and liability with respect to suspected drug abuse • Identify and access appropriate resources to assist with cases of suspected drug abuse 	<p>Assessment of evidence obtained from practical instruction and demonstration.</p> <p>Where practicable, approved practical experience at a hospital or similar establishment</p>	<p>Identification of symptoms is based on the concept of clinical examination and medical history.</p> <p>Protection against infection and spread of diseases is complete and effective.</p> <p>Treatment of injury or condition is appropriate and conforms to accepted medical practice and relevant national and international medical guides.</p> <p>The dosage and application of drugs and medication complies with manufacturers' recommendations and accepted medical practice.</p> <p>The significance of changes in patients' condition is promptly recognized.</p> <p>Personal attitude is calm, confident and reassuring.</p>

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COMPETENCE	KNOWLEDGE, UNDERSTANDING AND PROFICIENCY	METHODS OF DEMONSTRATING COMPETENCE	CRITERIA FOR EVALUATING COMPETENCE
Apply medical care to the sick and injured while they remain on board	<p>3.5 DENTAL CARE Ability to:</p> <ul style="list-style-type: none"> ● Recognize dental emergencies <p>3.6 GYNECOLOGY, PREGNANCY AND CHILDBIRTH Ability to:</p> <ul style="list-style-type: none"> ● Recognize labour and imminent delivery ● Assist the mother in the delivery of the new-born ● Provide care for the new-born child ● Provide care for the mother ● Provide care for the placenta ● Recognize signs of miscarriage ● Provide first aid and care for the mother in cases of miscarriage 	<p>Assessment of evidence obtained from practical instruction and demonstration.</p> <p>Where practicable, approved practical experience at a hospital or similar establishment</p>	<p>Identification of symptoms is based on the concept of clinical examination and medical history.</p> <p>Protection against infection and spread of disease is complete and effective.</p> <p>Treatment of injury or condition is appropriate and conforms to accepted medical practice and relevant national and international medical guides.</p> <p>The dosage and application of drugs and medication complies with manufacturers' recommendations and accepted medical practice.</p> <p>The significance of changes in patients' condition is promptly recognized.</p> <p>Personal attitude is calm, confident and reassuring.</p>

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Apply medical care to the sick and injured while they remain on board	<p>3.7 MEDICAL CARE OF RESCUED PERSONS Ability to:</p> <ul style="list-style-type: none"> ● Recognize signs and symptoms of heat related illnesses <ul style="list-style-type: none"> - cramps - heat stroke - heat exhaustion ● Provide care for heat related illness ● Recognize signs and symptoms various stages of hypothermia ● Provide care for hypothermia ● Recognize signs and symptoms of frostbite ● Provide care for frostbite <p>Knowledge of:</p> <ul style="list-style-type: none"> ● Near drowning ● Care for the casualty involved in a near drowning incident ● Decompression illness ● Resources available and access to same when dealing with decompression illness 	<p>Assessment of evidence obtained from practical instruction and demonstration.</p> <p>Where practicable, approved practical experience at a hospital or similar establishment</p>	<p>Identification of symptoms is based on the concept of clinical examination and medical history.</p> <p>Protection against infection and spread of diseases is complete and effective.</p> <p>Treatment of injury or condition is appropriate and conforms to accepted medical practice and relevant national and international medical guides.</p> <p>The dosage and application of drugs and medication complies with manufacturers' recommendations and accepted medical practice.</p> <p>The significance of changes in patients' condition is promptly recognized.</p> <p>Personal attitude is calm, confident and reassuring.</p>

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COMPETENCE	KNOWLEDGE, UNDERSTANDING AND PROFICIENCY	METHODS OF DEMONSTRATING COMPETENCE	CRITERIA FOR EVALUATING COMPETENCE
Apply medical care to the sick and injured while they remain on board	<p>3.8 DEATH AT SEA Knowledge of procedures and protocols relating to:</p> <ul style="list-style-type: none"> • Death on board or at sea <p>3.9 HYGIENE Knowledge of procedures and protocols relating to:</p> <ul style="list-style-type: none"> • Maintain a nursing station • Water and food storage <p>3.10 DISEASE PREVENTION, including:</p> <p>3.10.1 DISINFECTION, DISINFESTATION, DERATTING Knowledge of procedures and protocols relating to:</p> <ul style="list-style-type: none"> • Disinfection, disinfestation and de-ratting <p>3.10.2 VACCINATIONS Knowledge of procedures and protocols relating to:</p> <ul style="list-style-type: none"> • Vaccinations 	<p>Assessment of evidence obtained from practical instruction and demonstration.</p> <p>Where practicable, approved practical experience at a hospital or similar establishment</p>	<p>Identification of symptoms is based on the concept of clinical examination and medical history.</p> <p>Protection against infection and spread of diseases is complete and effective.</p> <p>Treatment of injury or condition is appropriate and conforms to accepted medical practice and relevant national and international medical guides.</p> <p>The dosage and application of drugs and medication complies with manufacturers' recommendations and accepted medical practice.</p> <p>The significance of changes in patients' condition is promptly recognized.</p> <p>Personal attitude is calm, confident and reassuring.</p>

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COMPETENCE	KNOWLEDGE, UNDERSTANDING AND PROFICIENCY	METHODS OF DEMONSTRATING COMPETENCE	CRITERIA FOR EVALUATING COMPETENCE
Apply medical care to the sick and injured while they remain on board	<p>3.11 KEEPING RECORDS AND COPIES OF APPLICABLE REGULATIONS</p> <p>3.11.1 KEEPING MEDICAL RECORDS Knowledge of:</p> <ul style="list-style-type: none"> ● Applicable record keeping procedures ● Responsibilities for completion of medical records and appropriate filing of same <p>Ability to:</p> <ul style="list-style-type: none"> ● Complete appropriate written record keeping <p>3.11.2 INTERNATIONAL AND NATIONAL MARITIME MEDICAL REGULATIONS Knowledge of:</p> <ul style="list-style-type: none"> ● Applicable national and international maritime medical regulations ● Location of relevant documents on board 	<p>Assessment of evidence obtained from practical instruction and demonstration.</p> <p>Where practicable, approved practical experience at a hospital or similar establishment</p>	<p>Identification of symptoms is based on the concept of clinical examination and medical history.</p> <p>Protection against infection and spread of diseases is complete and effective.</p> <p>Treatment of injury or condition is appropriate and conforms to accepted medical practice and relevant national and international medical guides.</p> <p>The dosage and application of drugs and medication complies with manufacturers' recommendations and accepted medical practice.</p> <p>The significance of changes in patients' condition is promptly recognized.</p> <p>Personal attitude is calm, confident and reassuring.</p>

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Apply medical care to the sick and injured while they remain on board	<p>3.12 EXTERNAL ASSISTANCE, including: Ability to:</p> <p>3.12.1 RADIO MEDICAL ADVICE</p> <ul style="list-style-type: none"> ● Establish effective radio communication ● Complete appropriate verbal reports at handover <p>3.12.2 TRANSPORTATION OF THE ILL AND INJURED, including helicopter evacuation Ability to demonstrate urgent removal of the casualty:</p> <ul style="list-style-type: none"> ● From the area of the incident ● From confined spaces ● From vehicles <p>Ability to perform effective carries involving:</p> <ul style="list-style-type: none"> ● One rescuer ● Two rescuers ● Multiple rescuers ● Stretcher carries ● Other equipment (e.g. stokes basket) 	<p>Assessment of evidence obtained from practical instruction and demonstration.</p> <p>Where practicable, approved practical experience at a hospital or similar establishment</p>	<p>Identification of symptoms is based on the concept of clinical examination and medical history.</p> <p>Protection against infection and spread of diseases is complete and effective.</p> <p>Treatment of injury or condition is appropriate and conforms to accepted medical practice and relevant national and international medical guides.</p> <p>The dosage and application of drugs and medication complies with manufacturers' recommendations and accepted medical practice.</p> <p>The significance of changes in patients' condition is promptly recognized.</p> <p>Personal attitude is calm, confident and reassuring.</p>

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Column 1	Column 2	Column 3	Column 4
COMPETENCE	KNOWLEDGE, UNDERSTANDING AND PROFICIENCY	METHODS OF DEMONSTRATING COMPETENCE	CRITERIA FOR EVALUATING COMPETENCE
Apply medical care to the sick and injured while they remain on board	<p>Knowledge of:</p> <ul style="list-style-type: none"> • Equipment available on board • Other resources (e.g. Coast Guard, International assistance) and the requirements and procedures for gaining assistance from same <p>3.12.3 MEDICAL CARE OF SICK SEAFARERS involving co-operation with port health authorities or outpatient ward in port</p> <p>Ability to:</p> <ul style="list-style-type: none"> • Establish an effective incident command system • Establish a systematic allocation and prioritization of resources • Deal effectively with rescuers injured or otherwise affected in the line of duty • Communicate effectively with identified resources • Responsibilities for castaways and rescued persons • Legal and ethical responsibilities • Appropriate cultural and behavioural considerations <p>3.13 EXAMINATION</p>	<p>Assessment of evidence obtained from practical instruction and demonstration.</p> <p>Where practicable, approved practical experience at a hospital or similar establishment</p>	<p>Identification of symptoms is based on the concept of clinical examination and medical history.</p> <p>Protection against infection and spread of diseases is complete and effective.</p> <p>Treatment of injury or condition is appropriate and conforms to accepted medical practice and relevant national and international medical guides.</p> <p>The dosage and application of drugs and medication complies with manufacturers' recommendations and accepted medical practice.</p> <p>The significance of changes in patients' condition is promptly recognized.</p> <p>Personal attitude is calm, confident and reassuring.</p>