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	MARINE MEDICAL CARE	

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 (0SH) 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.

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

		Total:	8	hours
1.4	EXAMI	NATION	1	hour
	1.3.7	IMPROVISE BANDAGES AND USE MATERIALS IN EMERGENCY KIT	0.5	hours
	1.3.6	RESCUE AND TRANSPORT A CASUALTY	0.5	hours
	1.3.5	APPLY APPROPRIATE MEASURES IN EVENT OF BURNS, AND SCALDS, including accidents caused by electrical current	0.5	hours
	1.3.4	APPLY APPROPRIATE MEASURES OF BASIC SHOCK MANAGEMENT	0.5	hours
	1.3.3	CONTROL BLEEDING	1.0	hour
	1.3.2	APPLY RESUSCITATION TECHNIQUES	1.5	hours
	1.3.1	POSITION CASUALTY	0.5	hours
1.3		STANDING OF IMMEDIATE MEASURES TO BE TAKEN ES OF EMERGENCY, including the ability to:		
1.2	APPRE	CIATION OF BODY STRUCTURE AND FUNCTIONS	1	hour
1.1	ASSESSMENT OF NEEDS OF CASUALTIES and threats to own safety			hour

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	FUNCTION: MEDICAL FIRST AID		
Column 1	Column 2	Column 3	Column 4
COMPETENCE	KNOWLEDGE, UNDERSTANDING	METHODS OF	CRITERIA FOR
	AND PROFICIENCY	DEMONSTRATINGC	EVALUATING
		OMPETENCE	COMPETENCE
Apply immediate	1.1 ASSESSMENT OF NEEDS OF	Assessment of	The identification of
basic first aid in	CASUALTIES and threats to	evidence obtained	probable cause, nature
the event of	own safety	from practical	and extent of injuries
accident or		instruction	is prompt, complete
illness on board	• Apply the principles of first aid		and conforms to
			correct first aid
	• Apply the principles of		practice.
	emergency scene management		r
	······································		Risk of harm to self
	• Examine and assess a casualty		and others is
	- Examine and assess a custancy		minimized at all times.
	Provide follow up care		minimized at an times.
			Treatment of injuries
	• Apply the principles of safety		and the patients
	universal precautions		condition is
	universal precautions		
	1.2 ADDRECLATION OF DODY		appropriate, conforms
	1.2 APPRECIATION OF BODY		to the recognized first
	STRUCTURE AND		aid practice and
	FUNCTIONS		international
			guidelines.
	Identify regions of the body		
	• 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		
	system and the functions of each		
	• Identify parts of the requiret		
	• Identify parts of the respiratory		
	• anotom and the functions of		
	• system and the functions of each		
	• Identify parts of the circulatory		
	system and the functions of each		

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Column 1	Column 2	Column 3	Column 4
COMPETENCE	KNOWLEDGE, UNDERSTANDING	METHODS OF	CRITERIA FOR
CONTELECT	AND PROFICIENCY	DEMONSTRATING	EVALUATING
		COMPETENCE	COMPETENCE
Apply immediate	1.3 UNDERSTANDING OF	Assessment of	The identification of
basic first aid in	IMMEDIATE MEASURES TO	evidence obtained	probable cause, nature
the event of	BE TAKEN IN CASES OF	from practical	and extent of injuries
accident or	EMERGENCY, including the	instruction	is prompt, complete
illness on board	ability to:	mstruction	and conforms to
miless on board	ability to.		correct first aid
	1.3.1 POSITION CASUALTY		practice.
	Ability to:		praetice.
	• Assess the need for moving a		Risk of harm to self
	casualty		and others is
	• Position a casualty from to prone		minimized at all times.
	(lying on stomach) to supine		minimized at an times.
	(lying on back)		Treatment of injuries
	• Position the casualty in the		and the patients
	recovery position and provide		condition is
	follow up care		appropriate, conforms
	ionow up cure		to the recognized first
	1.3.2 APPLY RESUSCITATION		aid practice and
	TECHNIQUES		international
	Ability to:		guidelines.
	 Recognize respiratory 		guidennes.
	emergencies		
	emergeneres		
	• 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		
	-		

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	FUNCTION: MEDICAL FIRST AID A	THE SUFFURI LEVE	L
Column 1	Column 2	Column 3	Column 4
COMPETENCE	KNOWLEDGE, UNDERSTANDING	METHODS FOR	CRITERIA FOR
	AND PROFICIENCY	DEMONSTRATINGC	EVALUATING
		OMPETENCE	COMPETENCE
Apply immediate	1.3.4 APPLY APPROPRIATE	Assessment of	The identification of
basic first aid in	MEASURES OF BASIC SHOCK	evidence obtained	probable cause,
the event of	MANAGEMENT:		nature and extent of
		from practical	
accident or	Ability to:	instruction	injuries is prompt,
illness on board.			complete and
	Recognize shock		conforms to correct
			first aid practice.
	• Provide first aid to lessen the		
	severity of shock		Risk of harm to self
			and others is
	Recognize fainting		minimized at all
	-		times.
	Recognize levels of		
	consciousness		Treatment of injuries
			and the patients
	• Provide first aid for fainting and		condition is
	unconsciousness		appropriate,
	unconsciousness		conforms to the
	1.3.5 APPLY APPROPRIATE		recognized first aid
	MEASURES IN EVENT OF		practice and
	BURNS AND SCALDS,		international
	including accidents caused by		guidelines.
	electrical current:		
	Ability to:		
	• 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		
	1.3.6 RESCUE AND TRANSPORT		
	A CASUALTY:		
	Ability to:		
	• Recognize the principles of		
	safety		
	 Move a casualty away from 		
	 immediate hazards 		
	 Perform rescue carries 		
	appropriate to the incident		
		l	

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Column 1	Column 2	Column 3	Column 4
COMPETENCE	KNOWLEDGE, UNDERSTANDING	METHODS FOR	CRITERIA FOR
	AND PROFICIENCY	DEMONSTRATING	EVALUATING
		COMPETENCE	COMPETENCE
Apply immediate basic first aid in the event of accident or illness on board.	 1.3.7 IMPROVISE BANDAGES AND USE MATERIALS IN EMERGENCY KIT: Ability to: Awareness of the location of first aid kits and knowledge of its contents Ability to use correctly and quickly Importance of routine checks 	COMPETENCE Assessment of evidence obtained from practical instruction	COMPETENCE The identification of probable cause, nature and extent of injuries is prompt, complete and conforms to correct first aid practice. Risk of harm to self and others is minimized at all times. Treatment of injuries and the patients
	 Recognize readily available items and materials that might be appropriately used as bandages 1.4 EXAMINATION 		condition is appropriate, conforms to the recognized first aid practice and international guidelines.

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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



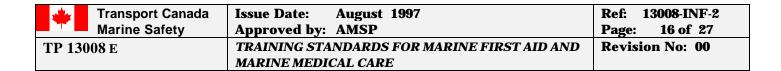
Column 1 Column 2 Column 3 Column COMPETENCE KNOWLEDGE, UNDERSTANDING METHODS OF CRITERIA FOR AND PROFICIENCY DEMONSTRATING EVALUATING COMPETENCE COMPETENCE 2.1 FIRST AID KIT Apply immediate Assessment of The identification of Advanced first evidence obtained probable cause, nature aid in the event • Awareness of their locations and from practical and extent of injuries of accident or knowledge of its contents instruction is prompt, complete illness on board and conforms to Ability to use correctly & correct first aid • practice. quickly Risk of harm to self Importance of routine checks ٠ and others is **2.2** BODY STRUCTURE AND minimized at all times. FUNCTION: Treatment of injuries Ability to: • Identify regions of the body and the patients condition is • Identify and name principal appropriate, conforms bones and muscles to the recognized first aid practice and • Identify location of major arteries international and veins guidelines. • 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



r	FUNCTION: MEDICAL FIRST AID AT		
Column 1	Column 2	Column 3	Column 4
COMPETENCE	KNOWLEDGE, UNDERSTANDING	METHODS OF	CRITERIA FOR
	AND PROFICIENCY	DEMONSTRATING	EVALUATING
		COMPETENCE	COMPETENCE
Apply immediate	2.3 TOXICOLOGICAL HAZARDS	Assessment of	The identification of
Advanced first	Knowledge of:	evidence obtained	probable cause, nature
aid in the event		from practical	and extent of injuries
of accident or	• Potentially toxic substances	instruction	is prompt, complete
illness on board	WHMIS Class identification		and conforms to
			correct first aid
	system and the information		practice.
	available		
	Material Safety Data Sheets		Risk of harm to self
	Material Safety Data Sheets		and others is
	(MSDS), their location and the		minimized at all times.
	type of information available		
	• Proper safeguards to be followed		Treatment of injuries
			and the patients
	in the use and storage of		condition is
	dangerous goods carried on		appropriate, conforms
	board		to the recognized first
	Characteristics and dangers		aid practice and
	•		international
	associated with confined spaces		guidelines.
	• Limitations of responsibilities and		
	_		
	abilities when dealing with		
	confined spaces		
	• Appropriate precautions and		
	procedures for incidents in and		
	around confined spaces		
	A 1 11.		
	Ability to:		
	• Provide first aid according to the		
	•		
	information provided		



	FUNCTION: MEDICAL FIRST AID AT	THE OF ERATIONAL LI	
Column 1	Column 2	Column 3	Column 4
COMPETENCE	KNOWLEDGE, UNDERSTANDING	METHODS OF	CRITERIA FOR
	AND PROFICIENCY	DEMONSTRATING	EVALUATING
		COMPETENCE	COMPETENCE
Apply immediate	2.4 EXAMINATION OF	Assessment of	The identification of
Advanced first	CASUALTY OR PATIENT	evidence obtained	probable cause, nature
aid in the event	Ability to:	from practical	and extent of injuries
of accident or	Conduct a systematic and	instruction	is prompt, complete
illness on board	complete:		and conforms to
	Primary assessment (Airway,		correct first aid
	Breathing, Circulation), and		practice.
	Secondary assessment (History,		*
	vital signs, head-to-toe		Risk of harm to self
	examination including		and others is
	appropriate record keeping of		minimized at all times.
	findings and action taken)		
			Treatment of injuries
	• Draw conclusions by process of		and the patients
	elimination and comparison		condition is
	I I I I I I I I I I I I I I I I I I I		appropriate, conforms
	• Recognize feigning of illness		to the recognized first
			aid practice and
	Recognize airway obstruction		international
			guidelines.
	• Provide appropriate care for		Surgennest
	obstructed airways		
	obstructed an ways		
	• Recognize breathing emergencies		
	• Provide artificial respiration for		
	casualty without suspected		
	head/spinal injury		
	neud, spinar ngary		
	• Provide artificial respiration for		
	casualty with suspected		
	head/spinal injury		
	nead/spinar injury		
	• Oxygen administration including		
	intubation		
	Intubation		
	• Recognize signs and symptoms of		
	angina/heart attack		
	angina/incart attack		
	• Recognize signs and symptoms of		
	cardiac arrest		
	carutac arrest		
	• Demonstrate one rescuer CPR		
	• Demonstrate two rescuer CPR		



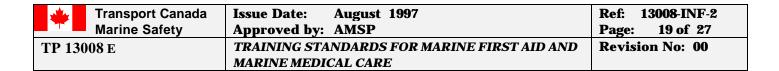
	FUNCTION: MEDICAL FIRST AID AT	THE OPERATIONAL LE	LVEL
Column 1	Column 2	Column 3	Column 4
COMPETENCE	KNOWLEDGE, UNDERSTANDING	METHODS OF	CRITERIA FOR
	AND PROFICIENCY	DEMONSTRATING	EVALUATING
		COMPETENCE	COMPETENCE
Apply immediate	2.5 SPINAL INJURIES	Assessment of	The identification of
Advanced first	Ability to:	evidence obtained	probable cause, nature
aid in the event	2	from practical	and extent of injuries
of accident or	 Recognize signs of possible 	instruction	is prompt, complete
illness on board	head/spinal injury based on		and conforms to
	mechanism of injury		correct first aid
	5.5		practice.
	• Take precautions to avoid further		r
	damage where head/spinal		Risk of harm to self
	injuries are suspected		and others is
			minimized at all times.
	• Provide suitable care		
			Treatment of injuries
	2.6 BURNS, SCALDS and effects of		and the patients
	heat and cold		condition is
			appropriate, conforms
	Ability to:		to the recognized first
			aid practice and
	• Identify burns according to type		international
	(e.g. heat, electrical, chemical,		guidelines.
	radiation)		guidennes.
	Tadiation)		
	• Classify degree of burn		
	, ,		
	• Take appropriate action according		
	to the type of burn		
	to the type of built		
	• Assess burned area and		
	determine the seriousness of the		
	burn		
	buin		



	FUNCTION: MEDICAL FIRST AID AT		
Column 1	Column 2	Column 3	Column 4
COMPETENCE	KNOWLEDGE, UNDERSTANDING	METHODS OF	CRITERIA FOR
	AND PROFICIENCY	DEMONSTRATING	EVALUATING
		COMPETENCE	COMPETENCE
Apply immediate	2.7 FRACTURES,	Assessment of	The identification of
Advanced first	DISLOCATIONS and	evidence obtained	probable cause, nature
aid in the event	MUSCULAR INJURIES	from practical	and extent of injuries
of accident or	Ability to:	instruction	is prompt, complete
illness on board	 Distinguish various types of 		and conforms to
inness on coure	fractures (closed/open,		correct first aid
	simple/compound /severe)		practice.
	simple/compound/severe/		practice.
	• Varify from indications that a		Risk of harm to self
	• Verify from indications that a bone is broken		
	bone is broken		and others is
			minimized at all times.
	• Stop bleeding from open fracture		
			Treatment of injuries
	• Relieve pain and treat fractures		and the patients
			condition is
	Recognize dislocations from		appropriate, conforms
	signs and prevent movement		to the recognized first
			aid practice and
	Recognize close/open		international
	dislocations		guidelines.
			C .
	• Prevent movement in affected		
	area by suitable immobilization		
	and take precautions during		
	transportation		
	Recognize a muscular injury		
	 Treat muscular injuries 		
L	1	1	1



	FUNCTION: MEDICAL FIRST AID AT		
Column 1	Column 2	Column 3	Column 4
COMPETENCE	KNOWLEDGE, UNDERSTANDING	METHODS OF	CRITERIA FOR
	AND PROFICIENCY	DEMONSTRATING	EVALUATING
		COMPETENCE	COMPETENCE
Apply immediate	2.8 MEDICAL CARE OF	Assessment of	The identification of
Advanced first	RESCUED PERSONS	evidence obtained	probable cause, nature
aid in the event	Ability to:	from practical	and extent of injuries
of accident or	2	instruction	is prompt, complete
illness on board	 Handle immediate medical 		and conforms to
	problems		correct first aid
	L		practice.
	• Treat cold exposure		r
	-		Risk of harm to self
	• Treat for oil contamination,		and others is
	dehydration and malnutrition		minimized at all times.
	denyeration and manualition		minimized at an times.
	• Treat for hypothermia		Treatment of injuries
			and the patients
	• Treat for seasickness, sunburn,		condition is
	heat exhaustion, cramps and		appropriate, conforms
	sunstroke		
	sunstroke		to the recognized first
	• Provide follow up care		aid practice and international
	• Hovide follow up care		
			guidelines.
	2.9 RADIO MEDICAL ADVICE		
	Ability to:		
	• Prepare information before		
	asking for advice		
	• Provide information to advisor		
	and record exchange of		
	information		
	Demost information to a duite		
	• Repeat information to advisor		
	Mointoin all naarnig an brand		
	• Maintain all records on board		
	Malta all among a success for		
	• Make all arrangements for		
	helicopter or ship to ship transfer		



Column 1			
Column 1	Column 2	Column 3	Column 4
	KNOWLEDGE, UNDERSTANDING	METHODS OF	CRITERIA FOR
	AND PROFICIENCY	DEMONSTRATING	EVALUATING
		COMPETENCE	COMPETENCE
Apply immediate	2.10 PHARMACOLOGY	Assessment of	The identification of
Advanced first	Knowledge of:	evidence obtained	probable cause, nature
aid in the event		from practical	and extent of injuries
of accident or	Medications carried on board	instruction	is prompt, complete
illness on board			and conforms to
	Qualifications required for		correct first aid
	administration of each		practice.
	• Side effects and cautions related		Risk of harm to self
	to specific medications available		and others is
	on board		minimized at all times.
	2.11 STERILIZATION		Treatment of injuries
			and the patients
	Ability to:		condition is
	• Apply knowledge of universal		appropriate, conforms
	precautions		to the recognized first
	precautions		aid practice and
	• Take precautions against		international
	infecting the wound		guidelines.
	infecting the would		C
	2.12 CARDIAC ARREST,		
	DROWNING AND		
	ASPHYXIA		
	Ability to:		
	-		
	• 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		
	2.13 EXAMINATION		

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	ASPEC	TS OF NURSING		2 hours
	3.2.1	General principles		
	3.2.2	Nursing care		
3.3	DISEA	SES 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	ALCO	HOL AND DRUG ABUSE		2 hours
3.5	DENTA	AL CARE		1 hour
3.6	GYNE	COLOGY, PREGNANCY AND CHILDBIRTH		2 hours
3.7	MEDIC	CAL CARE OF RESCUED PERSONS		5 hours

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3.8	DEATH	H AT SEA	1	hour
3.9	HYGIE	NE	1	hour
3.10	DISEA 3.10.1 3.10.2	SE PREVENTION including: Disinfection, disinfestation, deratting Vaccinations	1	hour
3.11		NG RECORDS AND COPIES OF CABLE REGULATIONS Keeping medical records International and national maritime medical regulations	2	hours
3.12	EXTER 3.12.1 3.12.2 3.12.3	RNAL ASSISTANCE, including: Radio medical advice Transportation of the ill and injured, including helicopter e Medical care of sick seafarers involving co-operation with authorities or outpatient ward in port	vacuation	hours
3.13	EXAM	INATION	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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	FUNCTION: WIEDI		1
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COMPETENCE	KNOWLEDGE, UNDERSTANDING	METHODS OF	CRITERIA FOR
	AND PROFICIENCY	DEMONSTRATING	EVALUATING
		COMPETENCE	COMPETENCE
Apply medical	3.1 CARE OF CASUALTY,	Assessment of	Identification of
care to the sick	involving:	evidence obtained	symptoms is based on
and injured while		from practical	the concept of clinical
they remain on	3.1.1 HEAD/SPINAL	instruction and	examination and
board.	INJURIES	demonstration.	medical history.
bourd.	Ability to:	demonstration.	medical mistory.
	romey to.	Where practicable,	Protection against
	• Assess the casualty's level of	approved practical	infection and spread
	responsiveness	experience at a	of diseases is
	responsiveness	hospital or similar	complete and
	• Describe the significance of	establishment	effective.
	casualty's level of consciousness	establishinent	chective.
	in assessing the seriousness of		Treatment of injury or
	the casualty's condition		condition is
	the casualty s condition		appropriate and
	• Assess seriousness of head or		conforms to accepted
	spinal injury based on		medical practice and
	mechanism of injury and signs		relevant national and
	and symptoms		international medical
	and symptoms		
	• Select, size and position		guides.
	commercial cervical collar		The decase and
	commercial cervical collar		The dosage and
	• Determine the most appropriate		application of drugs
			and medication
	means of transportation		complies with
	according to the situation, the		manufacturers'
	casualty's condition and		recommendations and
	resources available		accepted medical
	. Dackage and property acquality for		practice.
	• Package and prepare casualty for		
	transport according to established		The significance of
	protocols		changes in patients'
			condition is promptly
			recognized.
			Personal attitude is
			calm, confident and
			reassuring.
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~	FUNCTION: MEDI		
Column 1	Column 2	Column 3	Column 4
COMPETENCE	KNOWLEDGE, UNDERSTANDING	METHODS OF	CRITERIA FOR
	AND PROFICIENCY	DEMONSTRATING	EVALUATING
		COMPETENCE	COMPETENCE
Apply medical	3.1.2 INJURIES TO EAR,	Assessment of	Identification of
care to the sick	NOSE, THROAT AND EYES	evidence obtained	symptoms is based on
and injured while	Ability to:	from practical	the concept of clinical
they remain on		instruction and	examination and
board	• Assess injuries to ears, nose and	demonstration.	medical history.
	throat and determine the		
	seriousness of each according to	Where practicable,	Protection against
	signs and symptoms	approved practical	infection and spread
		experience at a	of diseases is
	• Determine care appropriate to	hospital or similar	complete and
	common injuries to ear, nose and	establishment	effective.
	throat		
			Treatment of injury or
	• Assess types of eye injury and		condition is
	related dangers of same		appropriate and
			conforms to accepted
	• Assess situations where removal		medical practice and
	of foreign objects in the eye (or		relevant national and
	area around the eye) should not		international medical
	be attempted		guides.
	 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) 		The dosage and application of drugs and medication complies with manufacturers' recommendations and accepted medical practice. The significance of changes in patients' condition is promptly recognized. Personal attitude is calm, confident and
			reassuring.
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Column 1	Column 2	Column 3	Column 4
COMPETENCE	KNOWLEDGE, UNDERSTANDING	METHODS OF	CRITERIA FOR
	AND PROFICIENCY	DEMONSTRATING	EVALUATING
		COMPETENCE	COMPETENCE
Apply medical	3.1.3 EXTERNAL AND	Assessment of	Identification of
care to the sick	INTERNAL BLEEDING	evidence obtained	symptoms is based on
and injured while	Ability to:	from practical	the concept of clinical
they remain on		instruction and	examination and
board	• Recognize external bleeding and	demonstration.	medical history.
	provide appropriate care		
	December internel blading and	Where practicable,	Protection against
	• Recognize internal bleeding and	approved practical	infection and spread
	provide appropriate care	experience at a	of diseases is
		hospital or similar	complete and
	3.1.4 BURNS, SCALDS and	establishment	effective.
	FROSTBITE		
	Ability to:		Treatment of injury or
	December have the		condition is
	• Recognize burns according to		appropriate and
	type heat, electrical, chemical,		conforms to accepted
	radiation		medical practice and
			relevant national and
	• Classify burns by degree		international medical
	first, second or third		guides.
	A house down and		
	• Assess burned area and		The dosage and
	determine seriousness of injury		application of drugs
	based on degree and area		and medication
	involved		complies with
	B assaniza special considerations		manufacturers'
	• Recognize special considerations		recommendations and
	and types of burns		accepted medical
	• Provide appropriate care for		practice.
	burns according to type		The significance of
	• Recognize frostbite and determine		changes in patients'
	8		condition is promptly
	seriousness of the		recognized.
	casualty's condition based on		Demons1.ett't 1.'
	signs and symptoms		Personal attitude is
	• Provide care appropriate to the		calm, confident and
	nature of the frostbite		reassuring.
	nature of the frostbite		
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	FUNCTION: MEDICAL CARE			
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COMPETENCE	KNOWLEDGE, UNDERSTANDING	METHODS OF	CRITERIA FOR	
	AND PROFICIENCY	DEMONSTRATING	EVALUATING	
		COMPETENCE	COMPETENCE	
Apply medical	3.1.5 FRACTURES,	Assessment of	Identification of	
care to the sick	DISLOCATIONS AND	evidence obtained	symptoms is based on	
and injured while	MUSCULAR INJURIES	from practical	the concept of clinical	
they remain on	Ability to:	instruction and	examination and	
board		demonstration.	medical history.	
	• Identify types of fractures			
	(open/closed, simple/compound)	Where practicable,	Protection against	
	Control blooding from an open	approved practical	infection and spread	
	• Control bleeding from an open	experience at a	of diseases is	
	fracture	hospital or similar	complete and	
	• Provide appropriate care for	establishment	effective.	
			The stars at a f in immedia	
	suspected sprains and fractures by preventing movement and		Treatment of injury or condition is	
	providing support to the injured		appropriate and	
	area during transportation		conforms to accepted	
	area during transportation		medical practice and	
	• Provide appropriate care for		relevant national and	
	suspected dislocations by		international medical	
	preventing movement and		guides.	
	providing support to the injured		Saraasi	
	area during transportation		The dosage and	
	e i i		application of drugs	
	 Identify muscle strain 		and medication	
			complies with	
	 Provide appropriate care for 		manufacturers'	
	muscle strain		recommendations and	
			accepted medical	
	3.1.6 WOUNDS, WOUND		practice.	
	HEALING AND INFECTION			
	Ability to:		The significance of	
			changes in patients'	
	• Use commercial and improvised		condition is promptly	
	materials as effective dressings		recognized.	
	and bandages			
	• Provide care for wounds and		Personal attitude is	
			calm, confident and	
	bleeding including eyes, ears, nose, mouth, knocked out teeth,		reassuring.	
	and crush injury			
	and crush mjury			
		l	I]	

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COMPETENCE	KNOWLEDGE, UNDERSTANDING	METHODS OF	CRITERIA FOR
	AND PROFICIENCY	DEMONSTRATING	EVALUATING
		COMPETENCE	COMPETENCE
Apply medical		Assessment of	Identification of
care to the sick	• Describe the physiological state	evidence obtained	symptoms is based on
and injured while	of shock and its importance in	from practical	the concept of clinical
they remain on	giving care to any casualty who	instruction and	examination and
board	is suffering illness or injury	demonstration.	medical history.
Joana	is suffering inness of injury	demonstration.	medical mistory.
	• Identify signs and symptoms of	Where practicable,	Protection against
	shock	_	infection and spread
	SHOCK	approved practical	of diseases is
	• Provide appropriate care for	experience at a	
		hospital or similar	complete and
	shock considering the nature of	establishment	effective.
	associate illness or injuries		
			Treatment of injury or
	3.1.7 PAIN RELIEF		condition is
	Knowledge of:		appropriate and
			conforms to accepted
	• Medications available on board		medical practice and
	and qualifications required for		relevant national and
	administration of each in the case		international medical
	of on board emergencies		guides.
	 Appropriate symptom relief 		The dosage and
	available on board		application of drugs
	(e.g. administration of ASA,		and medication
	glucose, nitroglycerin) including		complies with
	pain relief		manufacturers'
	1		recommendations and
	• Appropriate medications and		accepted medical
	procedures for administration of		practice.
	same by subcutaneous injection		practice.
	same by subcutaneous injection		The significance of
	• Appropriate medications and		changes in patients'
	procedures for administration of		condition is promptly
	same by intramuscular injection		recognized.
	• Appropriate medications and		Demonstrative de la
			Personal attitude is
	procedures for administration of		calm, confident and
	same by intravenous injection		reassuring.
	• Appropriate medications and		
	procedures for administration of		
	vaccinations		

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COMPETENCE	KNOWLEDGE, UNDERSTANDING	METHODS OF	CRITERIA FOR
	AND PROFICIENCY	DEMONSTRATING	EVALUATING
		COMPETENCE	COMPETENCE
Apply medical	3.1.8 TECHNIQUES OF	Assessment of	Identification of
care to the sick	SEWING AND CLAMPING	evidence obtained	symptoms is based on
and injured while	Knowledge of:	from practical	the concept of clinical
they remain on	-	instruction and	examination and
board	 Basic sewing and clamping 	demonstration.	medical history.
	techniques		5
	*	Where practicable,	Protection against
	3.1.9 MANAGEMENT OF	approved practical	infection and spread
	ACUTE ABDOMINAL	experience at a	of diseases is
	CONDITIONS	hospital or similar	complete and
	Ability to:	establishment	effective.
		estaonsiment	
	• Recognize acute abdominal		Treatment of injury or
	distress		condition is
	distress		appropriate and
	• Possible causes of acute		conforms to accepted
	abdominal distress including		medical practice and
	signs and symptoms		relevant national and
	signs and symptoms		international medical
	• Appropriate care for acute		guides.
	abdominal distress		guiues.
	abdommar distress		The dosage and
	3.1.10 MINOR SURGICAL		application of drugs
	TREATMENT		and medication
	Knowledge of:		complies with manufacturers'
	• Importance of cleanliness and		
	sterilization		recommendations and
	sterilization		accepted medical
	• Procedures for ensuring		practice.
	0		
	cleanliness and sterilization of		The significance of
	equipment and materials		changes in patients'
	• Surgical equipment available on		condition is promptly
	0 1 1		recognized.
	board and proper use of same		
			Personal attitude is
	3.1.11 DRESSINGS AND		calm, confident and
	BANDAGING		reassuring.
	Ability to:		
	Has appointing dags in a set		
	• Use specialized dressings and		
	bandages in appropriate		
	situations		

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COMPETENCE	KNOWLEDGE, UNDERSTANDING	METHODS OF	CRITERIA FOR
	AND PROFICIENCY	DEMONSTRATING	EVALUATING
		COMPETENCE	COMPETENCE
Apply medical	3.2 ASPECTS OF NURSING	Assessment of	Identification of
care to the sick	Knowledge of procedures and	evidence obtained	symptoms is based on
and injured while	protocols relating to:	from practical	the concept of clinical
they remain on		instruction and	examination and
board	3.2.1 GENERAL PRINCIPLES	demonstration.	medical history.
	 Maintain a nursing station 	Where practicable,	Protection against
		approved practical	infection and spread
	3.2.2 NURSING CARE	experience at a	of diseases is
		hospital or similar	complete and
	 Recognize feigning illness 	establishment	effective.
	• Traumatic incident stress		Treatment of injury or
	~		condition is
	• Responsibilities regarding care		appropriate and
	for existing medical conditions		conforms to accepted
			medical practice and
	• Ongoing care for injury/illness		relevant national and
			international medical
	3.3 DISEASES, including:		guides.
	3.3.1 MEDICAL CONDITIONS		The dosage and
	AND EMERGENCIES		application of drugs
	Knowledge of conditions and		and medication
	appropriate care for emergencies		complies with
	involving:		manufacturers'
	• Diabetes		recommendations and
	• Diabetes		accepted medical
	• Epilepsy		practice.
	- ~huchol		The significance of
	• Respiratory conditions (e.g.		The significance of changes in patients'
	asthma, emphysema)		condition is promptly
	asuma, empnysema)		recognized.
	• Motion sickness (seasickness)		iccognizeu.
	· · · · · · · · · · · · · · · · · · ·		Personal attitude is
	• Contagious diseases (e.g.		calm, confident and
	German measles, chicken pox,		reassuring.
	scarlet fever, TB, yellow fever)		reassaring.
	Hepatitis		
	• Resources outlining appropriate		
	care for various other conditions		

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	AND PROFICIENCY	DEMONSTRATING	EVALUATING
		COMPETENCE	COMPETENCE
Apply medical	3.3.2 SEXUALLY	Assessment of	Identification of
care to the sick	TRANSMITTED DISEASES	evidence obtained	symptoms is based on
and injured while	Knowledge of conditions and	from practical	the concept of clinical
they remain on	appropriate care for emergencies	instruction and	examination and
board	involving:	demonstration.	medical history.
	in or ing.		mearear motory.
	• Sexually transmitted diseases	Where practicable,	Protection against
		approved practical	infection and spread
	3.3.3 TROPICAL AND	experience at a	of diseases is
	INFECTIOUS DISEASES	hospital or similar	complete and
	Knowledge of conditions and	establishment	effective.
	appropriate care for emergencies	establishment	chective.
	involving:		Treatment of injury or
	myorying.		condition is
	• Tropical diseases including:		appropriate and
	• Tropical discusses meruding.		conforms to accepted
	• Identify types of poisons based		_
			medical practice and
	routes of entry		relevant national and
	• Identify potentially serious		international medical
			guides.
	sources of insect and animal		
	bites/stings		The dosage and
	Drovido organisto coro for		application of drugs
	• Provide appropriate care for		and medication
	suspected exposure to insect and		complies with
	animal bites and stings		manufacturers'
			recommendations and
	3.4 ALCOHOL AND DRUG		accepted medical
	ABUSE		practice.
	Ability to:		
			The significance of
	• Recognize drug abuse		changes in patients'
			condition is promptly
	• Understand responsibility and		recognized.
	liability with respect to suspected		
	drug abuse		Personal attitude is
			calm, confident and
	 Identify and access appropriate 		reassuring.
	resources to assist with cases of		-
	suspected drug abuse		
	~ -		
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Calumn 1	FUNCTION: MIEDI		Coloura 4
Column 1	Column 2	Column 3	Column 4
COMPETENCE	KNOWLEDGE, UNDERSTANDING	METHODS OF	CRITERIA FOR
	AND PROFICIENCY	DEMONSTRATING	EVALUATING
		COMPETENCE	COMPETENCE
Apply medical	3.5 DENTAL CARE	Assessment of	Identification of
care to the sick	Ability to:	evidence obtained	symptoms is based on
and injured while		from practical	the concept of clinical
they remain on	• Recognize dental emergencies	instruction and	examination and
board		demonstration.	medical history.
	3.6 GYNECOLOGY,		
	PREGNANCY AND	Where practicable,	Protection against
	CHILDBIRTH	approved practical	infection and spread
	Ability to:	experience at a	of disease is complete
		hospital or similar	and effective.
	• Recognize labour and imminent	establishment	
	delivery		Treatment of injury or
			condition is
	• Assist the mother in the delivery		appropriate and
	of the new-born		conforms to accepted
			medical practice and
	• Provide care for the new-born		relevant national and
	child		international medical
			guides.
	• Provide care for the mother		-
			The dosage and
	• Provide care for the placenta		application of drugs
			and medication
	Recognize signs of miscarriage		complies with
			manufacturers'
	• Provide first aid and care for the		recommendations and
	mother in cases of miscarriage		accepted medical
			practice.
			1
			The significance of
			changes in patients'
			condition is promptly
			recognized.
			i coognizou.
			Personal attitude is
			calm, confident and
			reassuring.
L	1	1	reassuring.

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Column 1	Column 2	Column 3	Column 4
COMPETENCE	KNOWLEDGE, UNDERSTANDING	METHODS OF	CRITERIA FOR
	AND PROFICIENCY	DEMONSTRATING	EVALUATING
		COMPETENCE	COMPETENCE
Apply medical	3.7 MEDICAL CARE OF	Assessment of	Identification of
care to the sick	RESCUED PERSONS	evidence obtained	symptoms is based on
and injured while	Ability to:	from practical	the concept of clinical
they remain on	5	instruction and	examination and
board	 Recognize signs and symptoms 	demonstration.	medical history.
	of heat related illnesses		
	- cramps	Where practicable,	Protection against
	- heat stroke	approved practical	infection and spread
	- heat exhaustion	experience at a	of diseases is
	neut exhlustion	hospital or similar	complete and
	• Provide care for heat related	establishment	effective.
		establishinent	enective.
	illness		Tarata at a fining a
	• Recognize signs and symptoms		Treatment of injury or
	• • • •		condition is
	various stages of hypothermia		appropriate and
	Duravida anna faultana ath anna is		conforms to accepted
	• Provide care for hypothermia		medical practice and
			relevant national and
	 Recognize signs and symptoms 		international medical
	of frostbite		guides.
	 Provide care for frostbite 		The dosage and
			application of drugs
	Knowledge of:		and medication
	6		complies with
	• Near drowning		manufacturers'
			recommendations and
	• Care for the casualty involved in		accepted medical
	a near drowning incident		practice.
	a near drowning merdent		practice.
	 Decompression illness 		The significance of
			-
	• Resources available and access to		changes in patients'
			condition is promptly
	same when dealing with		recognized.
	decompression illness		
			Personal attitude is
			calm, confident and
			reassuring.
			1

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COMPETENCE	KNOWLEDGE, UNDERSTANDING	METHODS OF	CRITERIA FOR
	AND PROFICIENCY	DEMONSTRATING	EVALUATING
		COMPETENCE	COMPETENCE
Apply medical	3.8 DEATH AT SEA	Assessment of	Identification of
care to the sick	Knowledge of procedures and	evidence obtained	symptoms is based on
and injured while	protocols relating to:	from practical	the concept of clinical
they remain on		instruction and	examination and
board	• Death on board or at sea	demonstration.	medical history.
			j.
	3.9 HYGIENE	Where practicable,	Protection against
	Knowledge of procedures and	approved practical	infection and spread
	protocols relating to:	experience at a	of diseases is
	F8	hospital or similar	complete and
	• Maintain a nursing station	establishment	effective.
	• Water and food storage		Treatment of injury or
			condition is
	3.10 DISEASE PREVENTION,		appropriate and
	including:		conforms to accepted
			medical practice and
	3.10.1 DISINFECTION,		relevant national and
	DISINFESTATION,		international medical
	DERATTING		guides.
	Knowledge of procedures and		
	protocols relating to:		The dosage and
	• Disinfection, disinfestation and		application of drugs
			and medication
	de-ratting		complies with
			manufacturers'
	3.10.2 VACCINATIONS		recommendations and
	Knowledge of procedures and		accepted medical
	protocols relating to:		practice.
	Vaccinations		The significance of
			changes in patients'
			condition is promptly
			recognized.
			icooginzou.
			Personal attitude is
			calm, confident and
			reassuring.
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	MARINE MEDICAL CARE	

	FUNCTION: MEDIC	CAL CARE	
Column 1	Column 2	Column 3	Column 4
COMPETENCE	KNOWLEDGE, UNDERSTANDING	METHODS OF	CRITERIA FOR
	AND PROFICIENCY	DEMONSTRATING	EVALUATING
		COMPETENCE	COMPETENCE
Apply medical	3.11 KEEPING RECORDS	Assessment of	Identification of
care to the sick	AND COPIES OF APPLICABLE	evidence obtained	symptoms is based on
and injured while	REGULATIONS	from practical	the concept of clinical
they remain on		instruction and	examination and
board	3.11.1 KEEPING MEDICAL RECORDS	demonstration.	medical history.
	Knowledge of:	Where practicable,	Protection against
		approved practical	infection and spread
	 Applicable record keeping 	experience at a	of diseases is
	procedures	hospital or similar	complete and
		establishment	effective.
	• Responsibilities for completion of		
	medical records and appropriate		Treatment of injury or
	filing of same		condition is
			appropriate and
	Ability to:		conforms to accepted
	• Complete appropriate written		medical practice and
			relevant national and
	record keeping		international medical
			guides.
	3.11.2 INTERNATIONAL AND NATIONAL MARITIME		The decage and
	MEDICAL REGULATIONS		The dosage and application of drugs
	Knowledge of:		and medication
	Kilowiedge of.		complies with
	• Applicable national and		manufacturers'
	international maritime medical		recommendations and
	regulations		accepted medical
	regulations		practice.
	• Location of relevant documents		practice.
	on board		The significance of
	on courd		changes in patients'
			condition is promptly
			recognized.
			Personal attitude is
			calm, confident and
			reassuring.

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	MARINE MEDICAL CARE	

	FUNCTION: MEDI		
Column 1	Column 2	Column 3	Column 4
COMPETENCE	KNOWLEDGE, UNDERSTANDING	METHODS OF	CRITERIA FOR
	AND PROFICIENCY	DEMONSTRATING	EVALUATING
		COMPETENCE	COMPETENCE
Apply medical	3.12 EXTERNAL	Assessment of	Identification of
care to the sick	ASSISTANCE, including:	evidence obtained	symptoms is based on
and injured while	Ability to:	from practical	the concept of clinical
they remain on		instruction and	examination and
board	3.12.1 RADIO MEDICAL ADVICE	demonstration.	medical history.
	 ADVICE Establish effective radio communication Complete appropriate verbal reports at handover 3.12.2 TRANSPORTATION OF THE ILL AND INJURED, including helicopter evacuation Ability to demonstrate urgent removal of the casualty: From the area of the incident From confined spaces From vehicles Ability to perform effective carries involving: One rescuer Two rescuers Multiple rescuers Stretcher carries Other equipment (e.g. stokes basket) 	Where practicable, approved practical experience at a hospital or similar establishment	Protection against infection and spread of diseases is complete and effective. Treatment of injury or condition is appropriate and conforms to accepted medical practice and relevant national and international medical guides. The dosage and application of drugs and medication complies with manufacturers' recommendations and accepted medical practice. The significance of changes in patients' condition is promptly recognized. Personal attitude is calm, confident and reassuring.

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	FUNCTION: MEDIC	CAL CARE]
Column 1	Column 2	Column 3	Column 4
COMPETENCE	KNOWLEDGE, UNDERSTANDING	METHODS OF	CRITERIA FOR
	AND PROFICIENCY	DEMONSTRATING	EVALUATING
		COMPETENCE	COMPETENCE
Apply medical	Knowledge of:	Assessment of	Identification of
care to the sick	-	evidence obtained	symptoms is based on
and injured while	 Equipment available on board 	from practical	the concept of clinical
they remain on		instruction and	examination and
board	• Other resources (e.g. Coast Guard,	demonstration.	medical history.
	International assistance) and the		
	requirements and procedures for	Where practicable,	Protection against
	gaining assistance from same	approved practical	infection and spread
		experience at a	of diseases is
	3.12.3 MEDICAL CARE OF	hospital or similar	complete and
	SICK SEAFARERS involving	establishment	effective.
	co-operation with port health		
	authorities or outpatient ward in		Treatment of injury or
	port		condition is
	Ability to:		appropriate and
			conforms to accepted
	• Establish an effective incident		medical practice and
	command system		relevant national and
			international medical
	• Establish a systematic allocation		guides.
	and prioritization of resources		
			The dosage and
	• Deal effectively with rescuers		application of drugs
	injured or otherwise affected in		and medication
	the line of duty		complies with
			manufacturers'
	• Communicate effectively with		recommendations and
	identified resources		accepted medical
			practice.
	 Responsibilities for castaways 		
	and rescued persons		The significance of
	· · · · · · · · · · · · · · · · · · ·		changes in patients'
	• Legal and ethical responsibilities		condition is promptly
	A		recognized.
	• Appropriate cultural and		
	behavioural considerations		Personal attitude is
			calm, confident and
	3.13 EXAMINATION		reassuring.