



**DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA**  
**MERCHANT SHIPPING SECRETARIAT**  
**Ministry of Ports & Civil Aviation**

No.79, Technical Junction, Maradana Road, Colombo 10, Sri Lanka  
 Telephone: +94(0)112435127, Fax: +94-(0) 112430277, E-mail: [dmsmos@slt.net.lk](mailto:dmsmos@slt.net.lk)

**Course outline**

**01. KEEP A PROPER LOOK-OUT BY SIGHT AND HEARING**

<b>Competence</b>	<b>Ref. No</b>	<b>Knowledge, understanding and proficiency</b>	<b>Duration (Hrs)</b>	<b>STCW ref. page</b>
1.KEEP A PROPER LOOK-OUT BY SIGHT AND HEARING	<b>1.1</b>	Responsibilities of a lookout	0.5	
	<b>1.2</b>	Reporting the approximate bearing of a sound signal, light or other object in degrees or points	1.5	

**02. CONTRIBUTE TO MONITORING AND CONTROLLING A SAFE WATCH**

<b>Competence</b>	<b>Ref. No</b>	<b>Knowledge, understanding and proficiency</b>	<b>Duration (Hrs)</b>	<b>STCW ref. page</b>
2.CONTRIBUTE TO MONITORING AND CONTROLLING A SAFE WATCH	<b>2.1</b>	Procedures for the relief, maintenance and hand over of a watch	1.5	
	<b>2.1.1</b>	Knowledge of handing over and taking over procedure of a navigational watch		
	<b>2.1.2</b>	Knowledge of duties of a lookout man		
	<b>2.1.3</b>	Knowledge of auto to manual and manual to auto change over procedure of the auto pilot		
	<b>2.1.4</b>	Knowledge of auto to manual and manual to auto change over procedure of the auto pilot		
	<b>2.1.5</b>	Knowledge of handing over and taking over procedure of a anchor watch		
	<b>2.1.6</b>	Knowledge of handing over and taking over procedure of an anti-		



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	<b>2.1.7</b>	piracy watch Local & international regulations on work & rest hours		
	<b>2.2</b>	Reporting the approximate bearing of a sound signal, light or other object in degrees or points	0.5	
	<b>2.3</b>	Knowledge of helm orders	1.5	

**03. OPERATE EMERGENCY EQUIPMENT AND APPLY EMERGENCY PROCEDURES**

Competence	Ref. No	Knowledge, understanding and proficiency	Duration (Hrs)	STCW ref. page
03. OPERATE EMERGENCY EQUIPMENT AND APPLY EMERGENCY PROCEDURES	<b>3.1</b>	Knowledge of emergency duties and alarm signals	1.5	
	<b>3.1.1</b>	Ability to identify general emergency alarm		
	<b>3.1.2</b>	Ability to identify auto activated fire alarm		
	<b>3.1.3</b>	Knowledge of actions to take when the emergency alarms are heard		
	<b>3.1.4</b>	Knowledge of duties during various emergency situations		
	<b>3.1.5</b>	Knowledge of the contents of a muster list		
	<b>3.1.6</b>	Knowledge of the contents of LSA & FFA training manuals		
	<b>3.2</b>	<b>Knowledge of pyrotechnic distress signals; satellite EPIRBs and SARTs</b>	1.0	
	<b>3.2.1</b>	Knowledge of pyrotechnic distress signals		
	<b>3.2.2</b>	Knowledge of EPIRBs		
<b>3.2.3</b>	Knowledge of SARTs			
	<b>3.2.4</b>			



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		Ability to understand the distress signals according to International Code of Signals		
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**04. CONTRIBUTE TO BERTHING, ANCHORING AND OTHER MOORING OPERATIONS**

<b>Competence</b>	<b>Ref. No</b>	<b>Knowledge, understanding and proficiency</b>	<b>Duration (Hrs)</b>	<b>STCW ref. page</b>
04. CONTRIBUTE TO BERTHING, ANCHORING AND OTHER MOORING OPERATIONS	<b>4.1</b>	<b>The capacities, safe working loads and breaking strengths</b>	1.0	
	<b>4.1.1</b>	Knowledge and the importance of SWL & BS		
	<b>4.1.2</b>	SWL & BS of mooring ropes, mooring wires and anchor chain		
	<b>4.2</b>	<b>The procedures and order of events for making fast &amp; letting go mooring lines and tug lines</b>	1.5	
	<b>4.2.1</b>	Knowledge of safe mooring & unmooring operations & ability to identify snap back zones		
	<b>4.2.2</b>	The procedures and order of events for making fast mooring lines & tug lines		
	<b>4.2.3</b>	The procedures and order of events for letting go mooring lines and tug lines		
	<b>4.3</b>	<b>The procedure for the use of anchors</b>	1.5	
	<b>4.3.1</b>	Knowledge of preparing an anchor for letting go		



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	4.3.2	Knowledge of shallow water anchoring procedure		
	4.3.3	Knowledge of deep water anchoring procedure		
	4.3.4	Knowledge of the actions to be taken once the vessel is brought up		
	4.3.5	Knowledge of the procedure of heaving up & securing for sea		

**05. CONTRIBUTE TO HANDLING OF CARGOES AND STORES**

Competence	Ref. No	Knowledge, understanding and proficiency	Duration (Hrs)	STCW ref. page
05. CONTRIBUTE TO HANDLING OF CARGOES AND STORES	5.1	Basic knowledge of and precautions to observe in connection with particular types of cargo and identification of IMDG labelling	1.5	
	5.1.1	Ability to identify IMDG labels		
	5.1.2	Knowledge of the safety precautions to be observed when handling IMDG		
	5.1.3	General knowledge of emergency procedures		

**06. CONTRIBUTE TO THE SAFE OPERATION OF DECK EQUIPMENT AND MACHINERY**

Competence	Ref. No	Knowledge, understanding and proficiency	Duration (Hrs)	STCW ref. page
06. CONTRIBUTE TO THE SAFE OPERATION OF DECK EQUIPMENT	6.1	Rig & unrig bosun's chairs	1.0	
	6.1.1	Demonstrates ability to rig & unrig bosun's chair		
	6.2	Rig and unrig pilot ladders, hoist, rat-guards and gangways	1.5	



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AND MACHINERY	6.2.1	Knowledge of rigging and unrigging a pilot ladder		
	6.2.2	Knowledge of a pilot embarking and disembarking procedure		
	6.2.3	Knowledge of the rigging and securing procedure of a gangway		
	6.3	<b>Use marlin spike seamanship skills, including the proper use of knots, splices and stoppers</b>	6.0	
	6.3.1	Ability to make commonly used knots onboard		
	6.3.2	Ability to splice wires and ropes		
	6.3.3	Ability to use stoppers on mooring ropes and mooring wires		
	6.4	<b>Knowledge of hoisting and dipping flags and the main single flag signals (A, B, G, H, O, P, Q</b>	0.5	
	6.4.1	Knowledge of hoisting and dipping flags		
	6.4.2	Knowledge of the main single flag signals (A, B, G, H, O, P, Q)		

**07. APPLY OCCUPATIONAL HEALTH AND SAFETY PRECAUTIONS**

Competence	Ref. No	Knowledge, understanding and proficiency	Duration (Hrs)	STCW ref. page
07. APPLY OCCUPATIONAL HEALTH AND SAFETY PRECAUTIONS	7.1	Working in enclosed spaces	0.5	
	7.2	Permit to work systems	0.5	
	7.3	Chemical & Biohazards safety	0.5	
	7.4	Personal safety equipment	0.5	



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**08. APPLY PRECAUTIONS AND CONTRIBUTE TO THE PREVENTION OF POLLUTION OF THE MARINE ENVIRONMENT**

<b>Competence</b>	<b>Ref. No</b>	<b>Knowledge, understanding and proficiency</b>	<b>Duration (Hrs)</b>	<b>STCW ref. page</b>
<b>08.APPLY PRECAUTIONS AND CONTRIBUTE TO THE PREVENTION OF POLLUTION OF THE MARINE ENVIRONMENT</b>	<b>8.1</b>	<b>Knowledge of the precautions to be taken to prevent pollution of the marine environment</b>	1.0	
	<b>8.1.1</b>	Knowledge of the importance of protecting the marine environment		
	<b>8.1.2</b>	Knowledge of the garbage management on board according to MARPOL Annex V		
	<b>8.1.3</b>	Knowledge of SOPEP and SMPEP		
	<b>8.2</b>	<b>Knowledge of the use and operation of anti-pollution equipment</b>	1.0	
	<b>8.2.1</b>	Knowledge of garbage compactor		
	<b>8.2.2</b>	Knowledge of incinerator		
	<b>8.2.3</b>	Knowledge of oily water separator		
	<b>8.2.4</b>	Knowledge of SOPEP and SMPEP equipment		
	<b>8.3</b>	<b>Knowledge of the approved methods for disposal of marine pollutants</b>	3.0	
	<b>8.3.1</b>	Knowledge of approved methods for disposal of marine pollutants according to MARPOL		
	<b>8.3.2</b>	Knowledge of the ballast water convention		



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