

DIRECTORATE GENERAL OF SHIPPING		
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Approved by: DG	Circular No: STCW 2010 Training Circular No. 3 of 2013	Date: 03.10.2013

In continuation of the STCW 2010 Circular No.5 of 2011 dated 29.12.2011, STCW 2010 Training Circular No.27 of 2012 dated 4.7.2012, and the Training Circular No. 11 of 2013 dated 7.6.2013, the Directorate has decided to include Seafarers Piracy Awareness module in the existing "Security Training for Seafarers with Designated Security Duties"[STSDSD] course, thereby increasing the duration of the said course from 9 ½ hours to 14 hours [2 days]. Accordingly, the revised curriculum of the said course is enclosed herewith.

2. All the maritime training institutes approved by the Directorate General of Shipping for the "Security Training for Seafarers with Designated Security Duties"[STSDSD] course are required to conduct this course as per attached curriculum w.e.f. 7.10.2013.

3. This issues with the approval of the Director General of Shipping & Ex-Officio Additional Secretary to the Govt. of India under the power conferred in the chapter IX-Rule 47 of Merchant Shipping [Standards of Training, Certification & Watch-keeping for Seafarers] Rules, 1998.



[Mahua Sarkar]

Dy. Director General of Shipping

Encl : Annexure-1 : STCW Table A-VI/6-2
Annexure-2 : Course Outline
Annexure-3 : Detailed Teaching Syllabus

To,

1. All Maritime Training Institutes
2. All Academic Councils
3. All Mercantile Marine Departments
4. The Shipping Master, Mumbai /Kolkata /Chennai
5. The Director, Seamen's Employment Office, Mumbai /Chennai /Kolkata
6. INSA/ FOSMA/MASSA
7. INDOS Cell, Nav Bhavan Building, Mumbai -1
8. Chief Surveyor with the Govt. of India
9. Nautical Adviser to the Govt. of India
10. Management Representative [QMS], EAC Branch, DGS
11. Crews Branch
12. Computer Cells
13. Hindi Cell
14. Sr.PS to DG for information.

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Annexure-1

STCW Table A-VI/6-2

Security Training for Seafarers with Designated Security Duties (STSDSD)

Column 1	Column 2	Column 3	Column 4
Competence	Knowledge, understanding and proficiency	Methods for demonstrating competence	Criteria for evaluating competence
Maintain the conditions set out in a ship security plan	<p>Working knowledge of maritime security terms and definitions, including elements that may relate to piracy and armed robbery.</p> <p>Knowledge of international maritime security policy and responsibilities of Governments, companies and persons, including working knowledge of elements that may relate to piracy and armed robbery.</p> <p>Knowledge of maritime security levels and their impact on security measures and procedures aboard ship and in the port facilities.</p> <p>Knowledge of security</p>	<p>Assessment of evidence obtained from approved instruction or during attendance at an approved course</p>	<p>Procedures and actions are in accordance with the principles established by the ISPS Code and the SOLAS, 1974, as amended.</p> <p>Legislative requirements relating to security are correctly identified.</p> <p>Communications within the area of responsibility are clear and understood</p>

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	<p>reporting procedures.</p> <p>Knowledge of procedures and requirements for drills and exercises under relevant conventions, codes and IMO circulars, including working knowledge of those that may relate to piracy and armed robbery.</p> <p>Knowledge of the procedures for conducting inspections and surveys and for the control and monitoring of security activities specified in a ship security plan.</p> <p>Knowledge of security-related contingency plans and the procedures for responding to security threats or breaches of security, including provisions for maintaining critical operations at the ship/port interface, and including also working knowledge of those that may relate to piracy and armed robbery</p>		
Recognition of security risks and threats	<p>Knowledge of security documentation, including the Declaration of Security.</p> <p>Knowledge of techniques used to circumvent security measures, including those</p>	Assessment of evidence obtained from approved instruction or during attendance at an approved course	Procedures and actions are in accordance with the principles established by the ISPS Code and the SOLAS, 1974, as amended.

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	<p>used by pirates and armed robbers.</p> <p>Knowledge enabling recognition of potential security threats.</p> <p>Knowledge enabling recognition of weapons, dangerous substances and devices and awareness of the damage they can cause.</p> <p>Knowledge of crowd management and control techniques, where appropriate.</p> <p>Knowledge in handling security-related information and security-related communications.</p> <p>Knowledge of the methods for physical searches and non-intrusive inspections.</p>		
Undertake regular security inspections of the ship	<p>Knowledge of the techniques for monitoring restricted areas.</p> <p>Knowledge of controlling access to the ship and to restricted areas on board ship.</p> <p>Knowledge of methods for effective monitoring of deck</p>	Assessment of evidence obtained from approved instruction or during attendance at an approved course	Procedures and actions are in accordance with the principles established by the ISPS Code and the SOLAS Convention, as amended

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	<p>areas and areas surrounding the ship.</p> <p>Knowledge of inspection methods relating to the cargo and ship's stores.</p> <p>Knowledge of methods for controlling the embarkation, disembarkation and access while on board of persons and their effects.</p>		
Proper usage of security equipment and systems, if any	<p>General knowledge of various types of security equipment and systems, including those that could be used in case of attacks by pirates and armed robbers, including their limitations.</p> <p>Knowledge of the need for testing, calibrating, and maintaining security systems and equipment, particularly whilst at sea</p>	Assessment of evidence obtained from approved instruction or during attendance at an approved course	Equipment and systems operations are carried out in accordance with established equipment operating instructions and taking into account the limitations of the equipment and systems
			Procedures and actions are in accordance with the principles established by the ISPS Code and the SOLAS, 1974, as amended

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ANNEXURE - 2

COURSE OUTLINE

Security Training for Seafarers with Designated Security Duties (STSDSD)

Duration: 2 working days

Total hours: 14 hours

1.	Subject Area	Methods of teaching	Hours	
			Lecture	Exercise
	Introduction	Lecture / Presentation	1.0	
	1.1 Course overview			
	1.2 Competences to be achieved			
	1.3 Current security threats and patterns			
	1.4 Ship and port operations and conditions			
2.	Maritime Security Policy	Lecture / Presentation	0.75	
	2.1 Familiarity with relevant international conventions, codes, and recommendations			
	2.2 Familiarity with relevant government legislation and regulations			
	2.3 Definitions			
	2.4 Handling sensitive security-related information and communications			
3.	Security Responsibilities	Lecture / Presentation	1.25	
	3.1 Contracting governments			
	3.2 Recognized Security Organizations			
	3.3 The company			
	3.4 The Ship			
	3.5 The port facility			
	3.6 Ship Security Officer			
	3.7 Company Security Officer			
	3.8 Port Facility Security Officer			
	3.9 Seafarers with designated security duties			
	3.10 Port Facility personnel with designated security duties			
	3.11 Other personnel			

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Subject Area		Methods of teaching	Hours	
			Lecture	Exercise
4.	Ship Security Assessment 4.1 Assessment tools 4.2 On-scene security surveys	Lecture / Presentation	1.0	
5.	Security Equipment 5.1 Security equipment and systems 5.2 Operational limitations of security equipment and systems 5.3 Testing, calibration and maintenance of security equipment and systems	Lecture/ Demonstration of Equipments	1.0	0.25
6.	Threat Identification, Recognition, and Response 6.1 Recognition and detection of weapons, dangerous substances and devices 6.2 Methods of physical searches and non-intrusive inspections 6.3 Execution and coordination of searches 6.4 Recognition, on a non-discriminatory basis, of persons posing potential security risks 6.5 Techniques used to circumvent security measures 6.6 Crowd management and control techniques	Lecture/ Demonstration of Equipments	1.0	0.5
7.	Ship Security Actions 7.1 Actions required by different security levels 7.2 Maintaining security of the ship/port interface 7.3 Familiarity with the Declaration of Security 7.4 Reporting security incidents 7.5 Execution of security procedures	Lecture/ Demonstration of Equipments	0.5	0.25
8.	Emergency Preparedness, Drills, and Exercises 8.1 Execution of contingency plans 8.2 Security drills and exercises	Lecture / Presentation	1.0	

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Subject Area	Methods of teaching	Hours	
		Lecture	Exercise
8.3 Use of Citadel where provided onboard.			
9. Security Administration 9.1 Documentation and records	Lecture / Presentation	0.5	
ANTI-PIRACY			
10. Piracy Awareness - Prior to Entering Areas of Risk 10.1 Appraise the strengths and vulnerabilities of crews and ships. 10.2 Know the Anti-piracy measures (civilian and military) 10.3 Understand the contents of the Best Management Practices (BMP) 10.4 Pirates Business Model	Lecture / Presentation	1.3	
11. Pirate Attack 11.1 Examine the implications of a piracy attack 11.2 Assess how to defend the crew and the ship 11.3 Coping In a Hostage Situation	Lecture / Presentation	2.0	
12. The Release Process 12.1 Discuss the additional dangers associated with the release process	Lecture / Presentation	0.5	
13. Seafarers' Family 13.1 Enable seafarers to consider what they may wish to share with their family concerning the risks of piracy 13.2 Discussion with participants and closing session	Lecture / Presentation	0.7	
Assessment and Feedback		0.5	
GRAND TOTAL		13.0	1.0
TOTAL		14.0	

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Annexure 3

DETAILED TEACHING SYLLABUS

Security Training for Seafarers with Designated Security Duties (STSDSD)

Duration: 2 working days

Total hours: 14 hours

Learning Objectives	Hours
1. Introduction 1.1. Course overview .1 describes the topics and emphasis of the course 1.2. Competences to be achieved .1 describes the competences that will be achieved through completion of the course 1.3. Current security threats and patterns .1 summarizes threats to the maritime transportation industry, such as: • piracy and armed robbery • terrorism • contraband smuggling • stowaways and refugees • cargo theft • collateral damage 1.4. Ship and port operations and conditions .1 characterizes the intermodal nature of transportation and the interfaces between ships and other modes	1.0 hour
2. Maritime Security Policy 2.1. Familiarity with relevant international conventions, codes, and recommendations .1 summarizes previous efforts of IMO toward maritime security, such as MSC/Circ.443, SUA Act, etc. .2 summarizes the rapidity with which IMO acted to enhance	0.75 hour

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Learning Objectives		Hours
<ul style="list-style-type: none"> .3 maritime security following 9/11 .4 summarizes the amendments to SOLAS Chapter XI and the contents of the ISPS Code .5 summarizes the security-related provisions of the amendments to the STCW Code .5 summarizes IMO guidance on preventing and suppressing acts of piracy and armed robbery against ships 2.2. Familiarity with relevant government legislation and regulations <ul style="list-style-type: none"> .1 summarizes the requirements of relevant national legislation and regulations. 2.3. Definitions <ul style="list-style-type: none"> .1 defines <ul style="list-style-type: none"> • Vessel Security Plan • Company Security Officer • Vessel Security Officer • Port facility • Vessel-to-facility interface • Vessel-to-port interface • Vessel-to-vessel activity • Facility Security Officer • Designated Authority • Recognized Security Organization • Declaration of Security • Security Incident • Security Level • the three security levels • terms relating to piracy and armed robbery 2.4. Handling sensitive security-related information and communications <ul style="list-style-type: none"> .1 defines security-sensitive information and the importance of keeping it confidential 	<p>1.25 hours</p>	
<ul style="list-style-type: none"> 3. Security Responsibilities <ul style="list-style-type: none"> 3.1. Contracting governments <ul style="list-style-type: none"> .1 summarizes the responsibilities of contracting governments with respect to SOLAS Chapter XI-2 ,the ISPS Code and the STCW code. 3.2. Recognized Security Organizations 	<p>1.25 hours</p>	

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Learning Objectives	Hours
<p>3.3. The company</p> <p>.1 surveys the role of the Recognized Security Organization</p> <p>.1 summarizes the responsibilities of the company with respect to:</p> <ul style="list-style-type: none"> • ensuring that the Master has documents on board relating to the crewing of the ship and its employment • ensuring that the Ship Security Plan contains a clear statement emphasizing the master's authority designating a Company Security Officer and a Ship Security officer and ensuring that they are given the necessary support to fulfil their duties and responsibilities <p>3.4. The Ship</p> <p>.1 states that the vessel shall comply with the requirements of the Ship Security Plan as per the security level set</p> <p>3.5. The port facility</p> <p>.1 states that facilities shall comply with the relevant requirements of the Chapter XI-2 of SOLAS and the ISPS Code</p> <p>.2 states that the port facility shall act upon the security levels set by the Administration within whose territory it is located.</p> <p>3.6. Ship Security Officer</p> <p>.1 states that the company shall designate a Ship Security Officer for each vessel</p> <p>.2 lists the duties and responsibilities of the Ship Security Officer</p> <p>3.7. Company Security Officer</p> <p>.1 states that the company shall designate a Company Security Officer</p> <p>.2 describes that the person designated as Company Security Officer may act as Company Security Officer for one or more vessels provided that it is clearly identified for which ships he is responsible</p> <p>.3 indicates that the company may designate several persons as Company Security Officer provided that it is clearly identified for which ships each is responsible</p> <p>.4 lists the duties and responsibilities of the Company Security Officer</p> <p>3.8. Port Facility Security Officer</p>	

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Learning Objectives	Hours
<p>.1 states that the Port Facility Security Officer shall be designated for each facility</p> <p>.2 states that a person may be designated as the Port Facility Security Officer for one or more facilities</p> <p>.3 lists the duties and responsibilities of the Port Facility Security Officer</p> <p>3.9. Seafarers with designated security duties</p> <p>.1 states that members of the ship's crew other than the SSO may have designated security duties in support of the Ship Security Plan</p> <p>3.10. Port Facility personnel with designated security duties</p> <p>.1 states that port facility personnel other than the PFSO may be assigned security duties in support of the Port Facility Security Plan</p> <p>3.11. Other personnel</p> <p>.1 states that other ship and port facility personnel may have a role in the enhancement of maritime security</p> <p>.2 states that personnel other than ship or port facility personnel may have a role in the enhancement of maritime security</p> <p>.3 states that military, industry, and intergovernmental organizations may have a role in the prevention, suppression, and reporting of piracy and armed robbery against ships.</p>	
<p>4. Ship Security Assessment</p> <p>4.1. Assessment tools</p> <p>.1 discusses the use of checklists in conducting security assessments</p> <p>4.2. On-scene security surveys</p> <p>.1 lists the preparations required prior to an on-scene survey</p> <p>.2 lists the procedures and measures and operations to be evaluated during an on-scene survey</p> <p>.3 discusses the security aspects of ship layout</p> <p>.4 divides the survey into the following sections:</p> <ul style="list-style-type: none"> • Physical Security • Structural Integrity • Personnel Protection Systems • Procedural Policies • Radio and Telecommunication Systems • Other Areas <p>.5 discusses the importance and elements of physical security</p>	1.0 hour

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Learning Objectives	Hours
<ul style="list-style-type: none"> .6 aboard ships .6 describes the significance of structural integrity for ships and other structures .7 discusses the components and operations of systems to protect shipboard personnel .8 states the role of proper procedures in preventing and mitigating security incidents, including attacks by pirates and armed robbers. .9 describes the use of information technology and communications systems in ship operations and in maintaining security .10 identifies other areas that may, if damaged or used for illicit observation, pose a risk to persons, property, or operations aboard the ship or within a port facility .11 discusses the identification of vulnerabilities in the above areas and the preparation of counter measures to address them .12 states the importance of having in place emergency plans to deal with contingencies 	
<p>5. Security Equipment</p> <p>5.1. Security equipment and systems</p> <ul style="list-style-type: none"> .1 demonstrates familiarity with the various types of security equipment and systems that can be used aboard vessels and in facilities .2 describes the security equipment and systems that may be used to prevent and suppress attacks by pirates and armed robbers <p>5.2. Operational limitations of security equipment and systems</p> <ul style="list-style-type: none"> .1 explains the limitations of individual items of equipment and security systems .2 identifies the risks and benefits of security equipment and systems that may be used to prevent and suppress attacks by pirates and armed robbers <p>5.3. Testing, calibration and maintenance of security equipment and systems</p> <ul style="list-style-type: none"> .1 describes the testing, calibration and maintenance requirements for the above security equipment and systems 	1.25 hours
<p>6. Threat Identification, Recognition, and Response</p> <p>6.1. Recognition and detection of weapons, dangerous substances and devices</p>	1.5 hours

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Learning Objectives	Hours
<p>.1 describes the various types of weapons, dangerous substances and devices, the damage they can cause, and their appearance</p> <p>6.2. Methods of physical searches and non-intrusive inspections</p> <p>.1 demonstrates how to carry out physical searches and non-intrusive inspections.</p> <p>6.3. Execution and coordination of searches</p> <p>.1 summarizes how important it is to plan a search and practice carrying out searches as a drill.</p> <p>.2 explains how to plan a search using a system of check cards</p> <p>.3 describes the equipment the search team should carry for conducting a search</p> <p>.4 describes the procedures to be followed for an efficient search</p> <p>.5 describes the various places of concealment on board a ship</p> <p>6.4. Recognition, on a non-discriminatory basis, of persons posing potential security risks</p> <p>.1 describes the general characteristics and behavioural patterns of persons who are likely to threaten security</p> <p>.2 states how important it is to be observant to recognize such persons</p> <p>6.5. Techniques used to circumvent security measures</p> <p>.1 describes the techniques that may be used to circumvent security measures</p> <p>.2 explains the methods used by pirates and armed robbers to undertake attacks against ships</p> <p>6.6. Crowd management and control techniques</p> <p>.1 explains the basic psychology of a crowd in a crisis situation</p> <p>.2 states the importance of clear communication with crew and passengers during an emergency</p>	
<p>7. Ship Security Actions</p> <p>7.1. Actions required by different security levels</p> <p>.1 states the three security levels and the actions required for each level.</p> <p>.2 identifies recommended actions in response to attacks and attempted attacks by pirates and armed robbers</p> <p>7.2. Maintaining security of the ship/port interface</p> <p>.1 lists the reporting requirements for ships prior to entering port</p> <p>7.3. Familiarity with the Declaration of Security</p> <p>.1 explains the Declaration of Security and what it addresses.</p> <p>7.4. Reporting security incidents</p>	0.75 hour

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Learning Objectives	Hours
<p>.1 summarizes the reporting requirements in case of a security incident, including protocols for reporting attacks and attempted attacks by pirates and armed robbers</p> <p>7.5. Execution of security procedures</p> <p>.1 states the requirements for the Ship Security Officer to carry out regular security inspections</p> <p>.2 lists the security measures and procedures at the three security levels required to:</p> <ul style="list-style-type: none"> • ensure the performance of all ship security duties • control access to the ship • control the embarkation of persons and their effects • monitor restricted areas to ensure only authorized persons have access • monitor deck areas and areas surrounding the ship • coordinate the security aspects of the handling of cargo and ship stores; and • ensure that security communication is readily available 	
<p>8. Emergency Preparedness, Drills, and Exercises</p> <p>8.1. Execution of contingency plans</p> <p>.1 discusses action to take in case of a breach of security</p> <p>.2 discusses contingency plans for:</p> <ul style="list-style-type: none"> • damage to, or destruction of, the ship or of a port facility, e.g., by explosive devices, arson, sabotage or vandalism; • hijacking or seizure of the ship or of persons on board; • attacks by armed robbers; • tampering with cargo, essential ship equipment or systems or ship's stores; • unauthorized access or use, including presence of stowaways; • smuggling weapons or equipment, including weapons of mass destruction; • use of the ship to carry persons intending to cause a security incident, or their equipment; • use of the ship itself as a weapon or as a means to cause damage or destruction; • attacks from seaward while at berth or at anchor; and attacks while at sea. <p>8.2. Security drills and exercises</p>	1.0 hour

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Learning Objectives	Hours
.1 states the requirements for, and importance of, conducting drills and exercises, including those relating to prevention and suppression of piracy and armed robbery against ships. 8.3. Use of Citadel where provided onboard .1 understands the meaning of Citadel .2 knows how and when a citadel is to be used	
9. Security Administration 9.1. Documentation and records .1 states the documents that shall be available on board at all times .2 states the activities for which records shall be kept on board and the duration for which they should be retained.	0.5 hour
Anti-Piracy	
10. Piracy Awareness - Prior to Entering Areas of Risk 10.1. Appraise the strengths and vulnerabilities of crews and ships 10.1.1 Ship to be like a fortress – to discuss the available strengths of the ship to defend a pirate attack 10.1.2 Being slow moving, a ship is a vulnerable target with limited deterrent in terms of returning an attack 10.1.3 Discuss factors such as ship size, speed, freeboard, sea state, visibility, day/night condition affecting the vulnerability to an attack 10.2. Know the Anti-piracy measures (civilian and military) 10.2.1 Discuss the anti-piracy measures that can be adopted to make the ship less vulnerable to pirates boarding it 10.2.2 Adopting self-protecting measures to detract, deter or delay a piracy attack. 10.2.3 Transiting the high risk area in the recommended zone and preferably in a convoy 10.2.4 Communication with the flag state, coastal authority and task force to update ships position frequently. 10.3. Understand the contents of the Best Management Practices (BMP) guide as issued by industries bodies and updated from time to time 10.4. Pirates Business Model 10.4.1 Know that Piracy has grown into a business which sustains	1.3 hour

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Learning Objectives	Hours
<p style="text-align: center;">and fuels it</p> <p>10.4.2 Understand the Somali Pirates business model</p> <p>10.4.3 Understand the W. Africa piracy business model</p>	
<p>11. Pirate Attack</p> <p>11.1. Examine the implications of a piracy attack</p> <p>11.1.1 Know some of the recent cases of ship hijack and crew being hostage</p> <p>11.1.2 Know that individuals will react in different ways during a piracy attack</p> <p>11.2. Assess how to defend the crew and the ship</p> <p>11.2.1 Highlight relevant methods provided in the BMP and the contingency measures as given in the Ship's Security Plan in the event of an attack.</p> <p>11.2.2 Discuss the step by step actions to be taken during an attack</p> <p>11.2.3 Discuss the importance of retreating to the citadel in the event pirates board the ship</p> <p>11.2.4 Communication channels must be kept open with task forces and local co-ordination authorities to update situation periodically.</p> <p>11.3. Coping in a Hostage Situation</p> <p>11.3.1 Examine possible personal reactions to activities of pirates during a hostage situation</p> <p>11.3.2 Reiterate the importance of obedience to the pirates orders. There are no dead heroes.</p> <p>11.3.3 Understand possible personal reactions in immediate crisis situation, post crises situation, short term after crises situation</p> <p>11.3.4 Understand provocations from pirates and possible techniques to cope with the ensuing hostage situation.</p> <p>11.3.5 Coping in the long term in the captive situation</p>	2.0 hours

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Page No. 18 of 18	Subject: Revised guidelines of "Security Training for Seafarers with Designated Security Duties" as per Section A –VI/6 [para 4,5,& 6] of STCW, 2010	File No: TR/CIR/6(7)/2011
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Learning Objectives	Hours
12. The Release Process 12.1. Understand what happens prior to the release 12.2. Discuss the additional dangers associated with the release process 12.3. Know the safeguards to adopt during the release process 12.4. Discuss the practical needs of the crew after release 12.5. Be aware of the various parties and their involvement in the post-release	0.5 hours
13. Seafarers' Family 13.1. Discuss advantages of seeking employment with reputed shipowner/manager 13.2. Enable seafarers to consider what they may wish to share with their family concerning the risks of piracy 13.3. Understand the worries and concerns of family members about piracy 13.4. Know the seafarers own specific responsibility towards his family and the importance of correct information being passed on to them 13.5. Be aware of the reactions of the family members when informed about the seafarer being taken hostage. 13.6. Discussion with participants and closing session	0.7 hours
Feedback & Assessment	0.5 hours
Total:	14.0 hours
