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SUB-COMMITTEE ON STANDARDS OF  
TRAINING AND WATCHKEEPING  
34th session  
Agenda item 9

STW 34/9/2  
20 December 2002  
Original: ENGLISH

## MEASURES TO ENHANCE MARITIME SECURITY

**Submitted by the United States**

### SUMMARY

**Executive summary:** MSC 75 directed the STW Sub-Committee to develop training guidance such as model courses for the Ship Security Officer (SSO) and Company Security Officer (CSO). In order to develop a model course it is necessary to agree on the competencies required to perform the duties and responsibilities of the SSO or CSO. The United States developed competencies based on these duties and responsibilities, which can be used in a model course and be included in international guidance.

**Action to be taken:** Paragraph 4

**Related documents:** MSC 75/24, MSC 75/WP.18 and Add.1, MSC 75/22, STW 33/17, MSC 76/4/1/Add.1, STW 34/9

### Introduction

1 The Maritime Safety Committee, at its seventy-fifth session, agreed to include in the work programme and the provisional agenda of the forthcoming session of the STW Sub-Committee an item on “Measures to Enhance Maritime Security” (MSC 75/24, paragraph 17.109.3 and MSC 75/22, annex) and assigned two tasks to the STW Sub-Committee under this item (STW 34/1/1). As part of the tasking, MSC instructed the Sub-Committee to develop training guidance to enhance maritime security, in support of the requirements in the draft text of the International Ship and Port Facility Security Code (ISPS Code). In particular, to develop training guidance such as model courses for the Ship Security Officer (SSO), Company Security Officer (CSO) and the Port Facility Security Officer (PFSO).

### Discussion

2 Specific to any curriculum development for a model course is the requirement to define the learning objectives for the training (see Guidance on Implementation of IMO Model Courses). Learning objectives are specific and describe precisely what a trainee must do to demonstrate his/ her knowledge, understanding or proficiency (KUPs) as an end product of a learning process. Following this premise and to ensure internationally accepted learning objectives and internationally accepted methods for demonstrating competence along with the

criteria for evaluating the competence, it is first necessary to establish what competence an SSO and a CSO must have to meet the mandatory duties and responsibilities required by the amendments to the International Convention on the Safety of Life at Sea, 1974 and detailed in Part A of the ISPS Code (STW 34/9, annex 1 and annex 2).

3 To assist the Sub-Committee in their discussion, the United States developed competencies for an SSO and CSO based on the duties and responsibilities in Part A of the ISPS Code and the guidance contained in Part B. The annex of this paper, presents the table of Competencies, KUPs, and suggested Methods for Demonstrating and the Criteria for Evaluating each competence. In considering the above discussion, the United States recommends these results be used in developing learning objectives for a model course of training for the SSO and CSO. The United States further recommends the Sub-Committee adopt the Methods for Demonstrating and the Criteria for Evaluating the competence of a SSO or CSO contained in the table.

#### **Action requested of the Sub-Committee**

4 The Sub-Committee is invited to take note of the above discussion as well as the table in the annex and consider including the information contained in the annex when developing an IMO model course of training for a Ship Security Officer or Company Security Officer.

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## ANNEX

**KNOWLEDGE, UNDERSTANDING AND PROFICIENCIES (KUPS)  
REQUIRED OF THE SHIP SECURITY OFFICER AND COMPANY  
SECURITY OFFICER**

| Column 1                                                                   | Column 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Column 3                                                                                                | Column 4                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Competence                                                                 | Knowledge, understanding and proficiency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Methods for demonstrating competence                                                                    | Criteria for evaluating competence                                                                                                                                                                                                                                                                                                                                                                      |
| Develop and maintain a ship security plan and related emergency procedures | <ul style="list-style-type: none"> <li>Knowledge of the security responsibilities of the Company Security Officer (CSO), the Master, the Ship Security Officer (SSO), the crew, and the Port Facility Security Officer (PFSO)</li> <li>Knowledge of the laws and regulations that govern maritime and ship security and appropriate flag and port state authorities to notify in event of a security breach</li> <li>Knowledge of the elements that make-up a ship security plan and related procedures</li> <li>Knowledge of security contingencies and their responses</li> <li>Crowd management control *</li> <li>Knowledge of security levels and the appropriate readiness and protective measures for each level</li> <li>Knowledge of security in the layout of a ship</li> <li>Proficiency in conducting regular security inspections of the ship and audits on board</li> <li>Knowledge of the operation of technical aids to security</li> <li>Knowledge of security measures in port and during ship operation</li> </ul> | Examination or assessment of evidence obtained from training, exercises and/or practical demonstration. | <p>Procedures and actions are in accordance with established principles and plans.</p> <p>Objectives and strategy are appropriate to the nature of the situation , take account of contingencies and make optimum use of available resources.</p> <p>Action of crewmembers contribute to maintaining order and control.</p> <p>Ship venue not required</p> <p>Practical demonstration not required.</p> |

| Column 1                                          | Column 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Column 3                                                                                             | Column 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Competence                                        | Knowledge, understanding and proficiency                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Methods for demonstrating competence                                                                 | Criteria for evaluating competence                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| The assessment of risk, threat, and vulnerability | <ul style="list-style-type: none"> <li>Knowledge of methodologies for risk, threat, and vulnerability assessments</li> <li>Knowledge of techniques used to circumvent security measures</li> <li>Recognition of characteristics and behavioral patterns of persons who may be likely to threaten security</li> <li>Recognition and detection of weapons, dangerous substances, and devices</li> <li>Knowledge in handling sensitive security related information and security related communications</li> </ul> | Examination or assessment of evidence obtained from training, exercises and practical demonstration. | <p>Procedures and actions are in accordance with established principles and plans.</p> <p>Objectives and strategy are appropriate to the nature of the situation , take account of contingencies and make optimum use of available resources.</p> <p>Procedures ensure a state of readiness to respond to situations.</p> <p>Action of crewmembers contribute to maintaining order and control.</p> <p>Ship venue not required</p> <p>Practical demonstration required</p>  |
| Methods of physical searches                      | <ul style="list-style-type: none"> <li>Knowledge of the various techniques used to conduct physical searches (such as personnel, baggage and cargo, etc.) and non – intrusive inspections</li> <li>Implementing and coordinating a search</li> <li>Proficiency in the operation of security equipment and systems *</li> <li>Testing, calibration and at sea maintenance of equipment and systems *</li> </ul>                                                                                                  | Examination or assessment of evidence obtained from training, exercises and practical demonstration. | <p>Procedures and actions are in accordance with established principles and plans.</p> <p>Objectives and strategy are appropriate to the nature of the situation , take account of contingencies and make optimum use of available resources.</p> <p>Procedures ensure a state of readiness to respond to situations.</p> <p>Action of crewmembers contribute to maintaining order and control.</p> <p>Ship venue not required</p> <p>Practical demonstration required.</p> |
| Encourage security awareness and vigilance        | <ul style="list-style-type: none"> <li>Knowledge of Instructional Techniques for training crew</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                       | Examination or assessment of evidence obtained during required training, drills, and exercises.      | Procedures and actions are in accordance with established principles and plans.                                                                                                                                                                                                                                                                                                                                                                                             |

\* *Ship Security Officer*