

Security Orientated Courses Taught at Maritime Academies - DRAFT

| INSTITUTION: Massachusetts Maritime Academy | | | | | | | | | | | | | | |
|--|---|------------|---------|-----|---|----------|---------------------------|----------------------------|--------------------------|--------------------------|--------------------------|------------------------------|--------------|-------|
| Course Name | Course Description | Course No. | Credits | U/G | G | Cont. Ed | Security as Primary Focus | Security Not Primary Focus | Course Presently Offered | Course Under Development | Course Presently On-line | Course On-line in the future | Cert. Issued | Other |
| Maritime Security Management | This course provides the basic framework and knowledge to perform the duties and responsibilities of a Company Security Officer (CSO), Port Facility Security Officer (PFSO), or Ship Security Officer (SSO) as defined by the ISPS Code. Includes duties and responsibilities of a security officer, creating, implementing and maintaining a security plan, working with other security officers. | MT-3251 | 3.0 | Yes | | Yes | Yes | | Yes | | No | No | Yes | |
| Technological Hazards | This course will introduce the students to man made hazard and their mitigation. Hazards such as power generation from coal, oil, and nuclear fuels, biological and hazardous materials use, storage and removal. Disasters topics include technological disasters such as nuclear power and structural collapse and failure; wildfire disasters; bioterrorism; weapons of mass destruction. Course includes case studies and simulations using the CAMEO/MARPLOT computer modeling system. | EM-4111 | 3.0 | Yes | | | | Yes | Yes | | No | No | No | |
| Legal Issues in Emergency Management and Homeland Security | An introductory examination of the many legal issues involved in Emergency Management and agencies which supervise them and the programs and policies which are in place. Topics include the American political system with respect to disasters; American hazards and disaster agents; the fundamentals of emergency management; disaster laws; disaster budgeting; the federal and state organization and policy issues; intergovernmental relations; hazard mitigation within the cycle of emergency management; federal | EM-4131 | 3.0 | Yes | | | | Yes | Yes | | No | No | No | |

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| Legal Issues in Emergency Management and Homeland Sec (cont.) | disaster assistance programs and policies; and international experience. | | | | | | | | | | | | | |
| Crisis Communication | Investigate the nature of hazard, risk and crisis. Examines current theories as well as successful strategies for risk and crisis communication. The nature of hazard, risk, crisis. There will be a review of the anatomy of effective communication; audience analysis; problem-solving process; compliance-seeking; consensus-building and conflict management. Other topics include current sociological and psychological models for communication; overcoming communication barriers; the history of risk communication (CERCLA and the NPL, SARA and mandated public participation in environmental remediation, current successful strategies of risk communication) and the history of crisis communication (FEMA mitigation, preparedness, and response and recovery (MPRR)). The communication approaches and logistics (proactive and reactive) in emergency and disaster; sociological and psychological perceptions of crises—public, managers, workers; and public participation in MPRR will also be covered. | EM-4222 | 3.0 | Yes | | | No | Yes | Yes | | No | No | No | |
| Risk Assessment | Developments of concepts required for risk based planning and risk management. Objectives of and methods for vulnerability assessment for natural disaster, technological hazards, and terrorist threats. Concepts of risk analysis and risk perception will be covered. Topics include Introduction and | EM-3121 | 3.0 | Yes | | | No | Yes | Yes | | No | No | No | |

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| Risk Assessment (cont.) | Analysis (Game Theory; Process Descriptions; Hazard Identification; Source Models; Fault Tree Analysis; Consequence Analysis); Assessment (Exposure Assessment; Dose Response and Risk Characterization; Radiation Risk Assessment; Environmental Assessment); and Management (Structural Activity Relationships; Risk Management; Regulations; ISO 14000). | | | | | | | | | | | | | |
| Company Security Officer | To provide knowledge to those who may be designated to perform the duties and responsibilities of a Company Security Officer (CSO), as defined in paragraph 2.1.7 (and paragraph 11) of the ISPS Code, Part A, and in particular the duties and responsibilities with respect to the security of a ship, for insuring the development (or for developing), implementation, maintenance and updating of a ship security plan and for liaising with Ship Security Officers (SSOs) and with Port Facility Security Officers (PFSOs). | | | | | Yes | | | Yes | | No | No | Yes | |
| Port Facility Security Officer | To provide knowledge to those who may be designated to perform the duties and responsibilities of a Port Facility Security Officer (PFSO), as defined in section A/2.1.8.(and section A/17) of the ISPS Code, and in particular the duties and responsibilities with respect to the security of a port facility, for ensuring the development (or for developing) of, implementing, maintaining and updating a Port Facility Security Plan and for liaising with Ship Security Officers (SSOs) and with Company Security Officers (CSOs). | | | | | Yes | | | Yes | | No | No | Yes | |
| Ship Security Officer | To provide knowledge to those who may be designated to perform the duties and responsibilities of a Ship Security Officer (SSO), as defined | | | | | Yes | | | Yes | | No | No | Yes | |

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| Ship Security Officer (cont.) | in section A/2.1.6 (and section A/12)of the ISPS Code, and in particular the duties and responsibilities with respect to the security of a ship, for implementing and maintaining a Ship Security Plan and for liaising with the Company Security Officer (CSO) and with Port Facility Security Officers (PFSOs). | | | | | | | | | | | | | |
| Maritime Security Awareness | To provide the knowledge required for all personnel who are not assigned specific duties in connection with a security plan but are involved in the work of ports, facilities, and vessels and are therefore affected by the requirements of the Maritime Transportation Security Act of 2002, and/or Chapter XI-2 of SOLAS 74 as amended, and/or the IMO ISPS Code, and/or U.S. Coast Guard regulations contained in 33 CFR Chapter 1 Subchapter H. | | | | | Yes | | | Yes | | No | No | Yes | |
| Maritime Security for Vessel Personnel with Specific Security Duties | To provide knowledge required for vessel personnel who are assigned specific security duties in connection with a Vessel Security Plan (VSP) to perform their duties in accordance with the requirements of the Maritime Transportation Security Act of 2002, and/or Chapter XI-2 of SOLAS 74 as amended, and/or the IMO ISPS Code, and/or U.S. Coast Guard regulations contained in 33 CFR Chapter 1 Subchapter H. | | | | | Yes | | | Yes | | No | No | Yes | |
| Maritime Security for Facility Personnel with Specific Security Duties | To provide knowledge required for vessel personnel who are assigned specific security duties in connection with a Facility Security Plan (FSP) to perform their duties in accordance with the requirements of the Maritime Transportation Security Act of 2002, and/or Ch XI-2 of SOLAS 74 as amended, and/or | | | | | Yes | | | Yes | | No | No | Yes | |

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| Maritime Security for Facility Personnel with Specific Security Duties (cont.) | the IMO ISPS Code, and/or U.S.C.G. regulations contained in 33 CFR Ch 1 Subchapter H. | | | | | | | | | | | | | |