



## Course Description

**Institute: Maritime Postgraduate Studies Institute**

**Program: Masters of Science in Maritime Transport Technology**

1- Course Data		
<b>Course Code: MPI 757</b>	<b>Course Title: Quality and Safety Management Systems</b>	<b>Academic : 3 CHs.</b>
<b>Specialization: Ship Operation and Marine Safety</b>	<b>No. of Instructional Units: 13</b>	<b>Course Status: Supplementary</b>

<b>2- Course Aim</b>	This course aims at providing student with sufficient knowledge on quality assurance management systems and its implementation in marine industry as the application of the International Safety Management code (ISM) and the International Ship and Port facilities Security Code (ISPS). However, this course aims at enabling students to Master fundamentals and methods of research in order to produce their thesis in accordance to the academic final degree research requirements..
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3- Intended Learning Outcome:	
<b>a- Knowledge and Understanding, students will be able to:</b>	<ol style="list-style-type: none"> <li>1. Understand maritime safety and security background and purpose;</li> <li>2. Comprehend and recognize basic knowledge of the ISO standards.</li> <li>3. Determine and classify various Quality management systems and understand the Quality control and assurance standards and procedures.</li> <li>4. Recognize the important role of the ISPS code as a quality management system and its impact on the international maritime industry;</li> <li>5. Recognize the role of SSO, CSO and PSO in maintaining and enforcement the security measures vin different levels, as well as the role of the DPA in enforcement the SMS of the company;</li> <li>6. Acquire and understand proper knowledge and regulations familiarization of the maritime safety and security legal framework; and</li> <li>7. Identify the adequate implementation requirements of the ISM and the ISPS Codes.</li> </ol>



<p><b>b- Intellectual Skills, students will be able to:</b></p>	<ol style="list-style-type: none"> <li>1. Identify and critically analyze issues involved in safety and security of port, ship and company;</li> <li>2. Interpret and analyze the various standards in the IMO conventions as important legislative tools in terms of ISM and ISPS Code implantations</li> <li>3. Identify risk and quality management adequate approaches;</li> <li>4. Conceptualize the steps and methods of conducting a safety investigation; and</li> <li>5. Identify management strategies needed to create a proactive culture of safety and security.</li> </ol>
<p><b>c- Professional Skills, students will be able to:</b></p>	<ol style="list-style-type: none"> <li>1. Demonstrate ability to manage information of ship, company and port safety and security;</li> <li>2. Demonstrate ability to think critically and to justify ideas in a reasoned manner and communicate effectively on matters concerning safety and security policies / plans;</li> <li>3. Recognize auditing and reporting techniques and writing formal inspection formats for safety and security management;</li> <li>4. Demonstrate ability to report, analyze and fill professionally various relevant reports; and</li> <li>5. Learn various techniques of formal inspections relevant to ISPS and ISM codes.</li> </ol>
<p><b>d- General Skills, students will be able to:</b></p>	<ul style="list-style-type: none"> <li>• Understand the foundations of a safety culture;</li> <li>• Differentiate between different types of audits and understand the audit cycle; and</li> <li>• Understand the basics of performance management.</li> </ul>
<p><b>4- Course Content</b></p>	<p><b>Week No.1:</b> Introduction to: the concept of quality, documentation and manuals.</p> <p><b>Week No.2:</b> Quality assurance and quality control</p> <p><b>Week No.3:</b> Quality standers and systems</p> <p><b>Week No.4</b> ISO standers and updates</p> <p><b>Week No.5:</b> Internal and external audits</p> <p><b>Week No.6:</b> International Safety Management (ISM) Code. Aims, Structure and Course Contents of the (ISM) Code</p> <p><b>Week No.7:</b> Research assignment &amp; presentation</p> <p><b>Week No.8:</b> Risk and Quality Management -Safety Management and a Safety Culture</p> <p><b>Week No.9:</b> ISM documents, Policies and plans onboard ship and in the shipping companies</p> <p><b>Week No.10:</b> Inspection items, certification and detonable deficiencies</p>



	<p><b>Week No.11:</b> Security management systems, policies and plans.</p> <p><b>Week No.12:</b> Seminar presentation</p> <p><b>Week No.13:</b> ISPS Code Requirements Operational Security Management</p> <p><b>Week No.14:</b> Risk Assessment applications in security management system</p> <p><b>Week No.15:</b> Case study (drills and exercises)</p> <p><b>Week No.16:</b> Final Evaluation</p>
<b>5- Teaching and Learning Methods</b>	A mixture of lectures, tutorials, exercises, and case studies are used to deliver the various topics in this subject, some of which are covered in a problem-based format, thereby enhancing the learning objectives. Others are covered through directed study in order to enhance the students' ability of "learning to learn."
<b>6- Teaching and Learning Methods for Students with Special Needs</b>	A mixture of lectures, tutorials, exercises, and case studies are used to deliver the various topics in this subject, some of which are covered in a problem-based format, thereby enhancing the learning objectives by using Office hours and Additional Follow up.
<b>7- Student Assessment:</b>	
<b>a- Procedures used:</b>	<ol style="list-style-type: none"> <li>1. Participation</li> <li>2. Assignments</li> <li>3. Presentations</li> <li>4. Case Study</li> <li>5. Quiz</li> <li>6. Written Exams</li> <li>7. Workshop</li> </ol>
<b>b- Schedule:</b>	Assessment (1) Mid Assessment (2) 12 <sup>th</sup> Assessment (3) 15 <sup>th</sup> .
<b>c- Weighing of Assessment:</b>	<ul style="list-style-type: none"> <li>- 7th Week Examination 30%,</li> <li>- 12th Week Examination 20%,</li> <li>- Oral, seminar research activities evaluation 10%,</li> <li>- Final-term Report Writing 40%,</li> <li>- Semester Work: Total 100%</li> </ul>
<b>8- List of References:</b>	<p>DNV, 2005. "Integrated management systems. Ship operating companies. Safety, Quality, Environment and Occupational Health and Safety", Det Norsk Veritas, DNV Maritime, last cited on:  <a href="https://maritimecyprus.files.wordpress.com/2015/03/dnv-integrated-management-systems.pdf">https://maritimecyprus.files.wordpress.com/2015/03/dnv-integrated-management-systems.pdf</a></p>



<b>a- Course Notes</b>	<ul style="list-style-type: none"> <li>• Power point slides of lectures</li> <li>• Documents such as reports, case studies</li> </ul>
<b>b- Required Books (Textbooks)</b>	IMO, 1994. "INTERNATIONAL MANAGEMENT CODE FOR THE SAFE OPERATION OF SHIPS AND FOR POLLUTION PREVENTIO", INTERNATIONAL SAFETY MANAGEMENT (ISM) CODE) ". IMO.
<b>c- Recommended Books</b>	CROWLEY MARITIME, 2015." Management System Manual", CROWLEY MARITIME CORPORATION, Safety, Security, Quality, Environment (SSQE) Department, 5th Edition Rev 1: March 2015
<b>d- Periodicals, Web Sites, ..., etc.</b>	<a href="http://www.imo.org">www.imo.org</a>

**Vice Dean for Educational Affairs**  
Name & Signature:  
Date:15/2/2016

**Institute Dean**  
Name & Signature:  
Date: 15/2/2016