

ANNOTATION

<b>Fault Diagnosis And Control Of Ship Diesel Engines, Ship Steam Boilers And Ship Turbomachines</b>		<b>ESTC credits: 4</b>
<b>60 h</b>		
<b>Department:</b> Ship Power Systems	Lectures & Exercises: Assoc. Prof. Ph.D. Ivan Ivanov, Assistant Ph.D. Ivailo Bakalov	
<p><b>Learning Objectives</b></p> <p>1. “Ship Diesel Engines”. On completion of the course trainees SHOULD KNOW:</p> <ul style="list-style-type: none"> <li>- operational principles, classification, construction, theory of working processes and the basics of the operation of MDE;</li> <li>- how to prepare for operation, start and serve the main and auxiliary MDE in operation.</li> </ul> <p>2. “Marine Boilers”. On completion of the course the trainees SHOULD KNOW:</p> <ul style="list-style-type: none"> <li>- design features of boilers, valves and components of equipment;</li> <li>- processes in Marine Boilers;</li> <li>- operation and maintenance.</li> </ul> <p>3. “Ships Turbines”. On completion of the course trainees SHOULD KNOW:</p> <ul style="list-style-type: none"> <li>- design features of the shipboard turbines, the characteristics of their operation and effectiveness at different modes.</li> </ul>		
<p><b>Assessment System:</b></p> <p>The assessment of the trainees’ progress in the acquisition of the material is controlled with tests, seminars, term tests, laboratory exercise results and with assessment of the assigned individual project.</p>		
<p>1. “Ship Diesel Engines”:</p> <p>The syllabus covers the requirements of the STCW Code. Competence Ref Section – 2 Subject - 3, paragraphs: 1.6(o); 1.1(m) ; 1.6(o); 1.3,1.4,3.2(m9); 1.6(o); 1.3,1.4,3.2(m); 1.6(o); 1.1,1.4,3.2(m); 1.6(o); 1.1,1.4,3.2(m) and IMO/ILO Document for Guidance , 1985, as prescribed in IMO Model Course 7.02, Function 1; Part B1;competence 1.1 paragraphs:1.2.1.1-9;competence 1.2, paragraphs:1.1-9; and Model Course 7.04, Function 1, Competence 1.6.1-18,25.</p> <p>2. “Marine Boilers”:</p> <p>The syllabus covers the requirements of the STCW Code Competence Ref Section – 2 Subject – 4, paragraphs 1.6,1.3(m) and 1.6,1.3,3.2(m) and Subject – 5, paragraphs 1.6(o), 1.1(m) ; and IMO Course 7.02, Function 1, Part B1, paragraphs 1.2.2.2-8 and IMO Course 7.04 Function 1, Part A1, paragraphs 1.6.1.11, 1.6.1.19-22. STCW Code Competence Ref Section – 2 Subject – 3, paragraphs 1.3, 1.4 and 3.2(m), and IMO Course 7.04, Function 1 and Function 3, paragraphs 1.6.1.28 and 3.1.1.6.</p> <p>3. “Ships Turbines”:</p> <p>The syllabus covers the requirements of the STCW Code Competence Ref Section – 2 Subject – 3, paragraphs 1.3, 1.4 and 3.2(m), and IMO Course 7.04, Function 1 and Function 3, paragraphs 1.6.1.28 and 3.1.1.6.</p>		

<b>Contents:</b>			
<b>No.</b>	<b>Subject area (modules)</b>	<b>Lectures</b>	<b>Exercises</b>
1	Ship Diesel Engines	22	8
2	Marine Boilers	10	5
3	Ships Turbines	11	4
	<b>Total:</b>	<b>43</b>	<b>17</b>