280708 - Bridge Procedures

Coordinating unit: 280 - FNB - Barcelona School of Nautical Studies
Teaching unit: 742 - CEN - Department of Nautical Sciences and Engineering
Academic year: 2019
Degree: MASTER'S DEGREE IN NAUTICAL SCIENCE AND MARITIME TRANSPORT MANAGEMENT (Syllabus 2016). (Teaching unit Compulsory)
ECTS credits: 5
Teaching languages: Catalan

Coordinator: AGUSTIN MARTIN MALLOFRE

Requirements
Have the Degree approved

Degree competences to which the subject contributes

Basic:
CB7. That the students can apply their knowledge and ability to solve problems in new or unfamiliar environments within broader (or multidisciplinary) contexts related to their study area.

Specific:
CE1MENTM. Plan the trip and direct navigation, taking into account issues of safety, environmental protection and weather prognosis and oceanographic.

General:
CG2MENTM. Apply general knowledge of the structure and behavior in the Sea ship.
CG3MENTM. Manage and exercise control the direction of the ship.

Transversal:
CT5. FOREIGN LANGUAGE: Achieving a level of spoken and written proficiency in a foreign language, preferably English, that meets the needs of the profession and the labour market.
CT3. TEAMWORK: Being able to work in an interdisciplinary team, whether as a member or as a leader, with the aim of contributing to projects pragmatically and responsibly and making commitments in view of the resources that are available.

Learning objectives of the subject
The main objective is that future captains and mates, acquire the appropriate skills to perform navigational watch with full responsibility for navigating the ship safely during periods when they are on duty. Also to take appropriate and effective guards to ensure safety at all times while the ship is at anchor or moored and, if the ship is carrying hazardous cargo, the guards are organized taking fully into account the nature, quantity, packing / packaging and stowage the potentially dangerous card and any special conditions prevailing on board, at sea or on land.
One objective of this course is to impart the knowledge, understanding and proficiency of competencies "Establish watchkeeping arrangements and procedures", "Maintain safe navigation through the use of information from navigation equipment and systems to assist command decision making" and "Organize and manage the provision of medical care on board" necessary competencies defined in Section A-II/2 (minimum requirements applicable to the degree of captains and first officers bridge boat d'arqueig dirty or above 500 GT) of the International Convention on Standards of Training, Certification and Watchkeeping for Seafarers (STCW). Part two of these skills will be assessed by the simulator, which is evaluated by simulation according to the STCW Code.

### Study load

| Total learning time: 45h | Hours large group: | 45h | 100.00% |
### Content

#### CHAPTER 1 INTERNATIONAL SAFETY MANAGEMENT CODE PROCEDURES (ISM - CGS)

<table>
<thead>
<tr>
<th>Description:</th>
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<tbody>
<tr>
<td>1. Instructions and procedures to ensure the safety of ships and environmental protection under international law and flag State;</td>
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<td>2. Procedures for reporting accidents and cases of non-compliance with the Code</td>
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<td>3. Procedures for preparing to deal with emergencies, and</td>
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<td>4. Procedures for internal audits and management reviews</td>
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<table>
<thead>
<tr>
<th>Learning time: 50h</th>
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<tbody>
<tr>
<td>Theory classes: 18h</td>
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<tr>
<td>Self study: 32h</td>
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#### TEMA 2 BRIDGE TEAM MANAGEMENT (BTM)

<table>
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<tr>
<th>Description:</th>
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<tbody>
<tr>
<td>1. Human Factor</td>
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<tr>
<td>2. Leadership and Authority</td>
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<td>3. Motivation</td>
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<td>4. Analysis of accidents</td>
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<tr>
<td>5. Problem solving and decision making</td>
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<tr>
<td>6. Cultural Awareness</td>
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<td>7. Workload, stress and fatigue</td>
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<td>8. Communication</td>
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<td>9. Teamwork</td>
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<tr>
<td>10. Crisis Management and Conflict Resolution</td>
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<td>11. Planning the trip / alternative plans</td>
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<td>12. Organization of resources on the bridge</td>
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<td>13. Briefing and debriefing</td>
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<tr>
<td>14. Competency Profile Captain / Officer / Official duty (STCW)</td>
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<td>15. Perception and situational awareness (anticipation)</td>
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<td>16. Determination of security levels (forecast)</td>
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<td>17. Management of equipment and technical resources of the bridge</td>
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<td>18. Control of results of travel and bridge resource</td>
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<td>19. Control yields team</td>
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<tr>
<td>20. Exercises in the simulator</td>
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CHAPTER 3 VOYAGE PLANNING

Description:
1. Concept Voyage planning
2. The condition and state of the vessel, its stability, and its equipment; any operational limitations; its permissible draught at sea in fairways and in ports; its manoeuvring data, including any restrictions
3. Any special characteristics of the cargo (especially if hazardous), and its distribution, stowage and securing on board the vessel
4. Requirements for up-to-date certificates and documents concerning the vessel, its equipment, crew, passengers or cargo
5. Appropriate scale, accurate and up-to-date charts to be used for the intended voyage or passage, as well as any relevant permanent or temporary notices to mariners and existing radio navigational warnings
6. Accurate and up-to-date sailing directions, lists of lights and lists of radio aids to navigation
7. Information meteorológica and oceanographic (meteorológicos prognoses, tides, etc.)
8. Services of maritime traffic reports and Measurements of Protection of the marine environment
9. Information on pilotage. Exchange of information between the captain and pilot
10. Detailed information on the ports available, including the information on the availability respuesta plains of emergency tierra y equipos
11. Available port information, including information pertaining to the availability of shore-based emergency response arrangements and equipment

Qualification system

The final score will be the result of:
NF = 0.2 AC + 0.3 EP + 0.5 EF
20% AC Assessment during the course
30% EP Partial Exam
50% EF Final Exam

Regulations for carrying out activities

Is compulsory to realise the examens final and partial
Is compulsory to realise the practices and deliver the works proposed

Bibliography

Basic: