

Course guide

280700 - 280700 - Standards for Ship Inspection and Documentation

Last modified: 27/05/2025

Unit in charge:	Barcelona School of Nautical Studies	
Teaching unit:	742 - CEN - Department of Nautical Sciences and Engineering.	
Degree:	MASTER'S DEGREE IN NAUTICAL SCIENCE AND MARITIME TRANSPORT MANAGEMENT (Syllabus 2016). (Compulsory subject). MASTER'S DEGREE IN THE MANAGEMENT AND OPERATION OF MARINE ENERGY FACILITIES (Syllabus 2016). (Compulsory subject).	
Academic year: 2025	ECTS Credits: 5.0	Languages: Spanish, English

LECTURER

Coordinating lecturer:	NEREO ARRANZ COCA
Others:	Primer quadrimestre: NEREO ARRANZ COCA - MGOIE, MNGTM

DEGREE COMPETENCES TO WHICH THE SUBJECT CONTRIBUTES

Generical:

CG8-MGOIEM. Capacitat per a la gestió i direcció d'empreses marines
CG10MGOIEM. Capacitat per re-disseny i modificació d'equips i instal·lacions energètiques i de seguretat marines, dins l'àmbit de la seva especialitat, és a dir, operació, manteniment i explotació
CG15-MNGTM. (ENG) Capacidad para resolver problemas complejos y tomar decisiones con responsabilidad sobre bases científicas y tecnológicas en el ámbito de su especialidad
CG19-MNGTM. Capacitat per desenvolupar els coneixements per a l'anàlisi i interpretació de mesuraments, càlculs, valoracions, taxacions, peritatges, estudis, informes i documents tècnics en l'àmbit de la seva especialitat

Transversal:

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.

CT1. ENTREPRENEURSHIP AND INNOVATION: Knowing and understanding the organization of a company and the sciences that govern the activity; be able to understand the business rules and relationships between planning, industrial and commercial strategies, quality and profit.

Basic:

CB6. Possess knowledge and understanding that provide a basis or opportunity be original in the development and / or application of ideas, often in a research context.
CB8. Students should be able to integrate knowledge and handle the complexity of making judgments based on information that, being incomplete or limited, includes reflections on the responsibilities social and ethical linked to the application of their knowledge and judgments.
CB9. That students can communicate their conclusions and the knowledge and Latest rationale underpinning to specialists and non Specialty clearly and unambiguously.

TEACHING METHODOLOGY

LEARNING OBJECTIVES OF THE SUBJECT

Provide students with a legal and technical documentation on ship inspection, and that it is able to analyze, reason and determine, depending on the type of vessel and flag, what inspections, when, how and who should perform.

Knowing certificates that must have IMO ships.

Knowing the performances of international and national maritime administrations.

The procedures for inspection and certification of merchant vessels and pleasure and abroad.

Knowing the certificates to be carried on board ships.

Knowing the inspections of ships by Flag State Control.

Knowing the inspections of ships by ship Classification Societies.

Knowing the inspections of ships by the Port State Control (PARIS MOU).

This course will evaluate the following STCW competences:

Monitor and control Compliance with legislative requirements and measures to ensure safety of life at sea, security and protection of the marine environment

On the other hand, one of the objectives of this subject is provide the knowledge, understanding and proficiency of the competency: Monitor and control Compliance with legislative requirements and measures to ensure safety of life at sea, security and protection of the marine environment, competency required and defined in Section A-II/2-16 and A-III/2-11 (Mandatory minimum requirements for certification of masters and chief mates on ships of 500 gross tonnage or more) of the Seafarers, Training, Certification and Watchkeeping (STCW) International Code.

Knowledge of international maritime law embodied in international agreements and conventions.

Regard shall be paid especially to the following subjects:

1. Certificates and other documents required to be carried on board ships by international conventions, how they may be obtained and their period of validity.
2. Responsibilities under the relevant requirements of the International Convention on Load Lines, 1966, as amended.
3. Responsibilities under the relevant requirements of the International Convention for the Safety of Life at Sea, 1974, as amended.
4. Responsibilities under the International Convention for the Prevention of Pollution from Ships, as amended.
5. Maritime declarations of health and the requirements of the International Health Regulations.
6. Responsibilities under international instruments affecting the safety of the ship, passengers, crew and cargo.
7. Methods and aids to prevent pollution of the marine environment by ships.
8. National legislation for implementing international agreements and conventions.

"Knowledge, understanding and proficiency of the competency". This knowledge is necessary in accordance with STCW Code.

STUDY LOAD

Type	Hours	Percentage
Self study	80,0	64.00
Hours large group	45,0	36.00

Total learning time: 125 h

CONTENTS

1. IMO - INTERNATIONAL MARITIME ORGANIZATION

Description:

- Operation
- Goals
- Structure
- Conventions

Specific objectives:

Knowing the performances of international and national maritime administrations.

Full-or-part-time: 16h 40m

Theory classes: 2h

Self study : 14h 40m

2. DGMM - DIRECCIÓN GENERAL DE LA MARINA MERCANTE.

Description:

- Operation
- Structure
- Inspections PSC and FSC

Specific objectives:

Knowing the performances of international and national maritime administrations.

Full-or-part-time: 16h 40m

Theory classes: 2h

Self study : 14h 40m

3. INSPECTION OF VESSELS.

Description:

- R.D. 1837/2000, de 10 de noviembre, por el que se aprueba el Reglamento de Inspección y Certificación de Buques civiles.
- Directive 2009/16 / EC of the European Parliament and of the Council of 23 April 2009 on the control of ships by the Port State.
- R.D. 1737/2010, de 23 de diciembre, por el que se aprueba el Reglamento por el que se regulan las inspecciones de buques extranjeros en puertos españoles.
- Resolution A.1052 (27) Adopted on 30 November 2011, Procedures for Port State Control, 2011.
- R.D. 1434/1999, de 10 de septiembre, por el que se establecen los reconocimientos e inspecciones de las embarcaciones de recreo.

Specific objectives:

The procedures for inspection and certification of merchant vessels and pleasure and abroad.

Knowing the certificates to be carried on board ships.

Knowing the inspections of ships by port state flag.

Knowing the inspections of ships by the Port State (PARIS MOU).

Full-or-part-time: 75h

Theory classes: 9h

Self study : 66h

4. CCSS - CLASSIFICATION SOCIETIES.

Description:

- Operation
- Goals
- Structure
- IACS - International Association of Classification Societies.
- CSR - Common Structural Rules.

Full-or-part-time: 16h 40m

Theory classes: 2h

Self study : 14h 40m

GRADING SYSTEM

30% - PARTICIPATION - EXERCISES.

40% - FINAL PROJECT.

30% - FINAL EXAM.

BIBLIOGRAPHY

Basic:

- Paris MoU on port state control. List of Paris MoU deficiency codes [on line]. 2013 [Consultation: 19/07/2017]. Available on: <https://www.parismou.org/publications-category/pmou-deficiency-codes>.

- "Real decreto 1737/2010 de 23 de diciembre, por el que se aprueba el Reglamento por el que se regulan las inspecciones de buques extranjeros en puertos españoles". BOE Boletín Oficial del Estado [on line]. Madrid: Ministerio de la Presidencia, 2010. 30 de diciembre 2010, núm. 317, p. 108664-108702 [Consultation: 19/07/2017]. Available on: <http://www.boe.es/buscar/doc.php?id=BOE-A-2010-20055>.- Organización Marítima Internacional. Resolución A.1052(27) adoptada el 30 de noviembre de 2011 : Procedimientos para la supervisión por el Estado Rector del Puerto 2011 [on line]. 2011 [Consultation: 22/10/2018]. Available on: http://sitiowcontingencia.prefectura naval.gov.ar/web/es/doc/dpsn_resoluc_asambleas/a1052.pdf.

- International Maritime Organization. Resolution A.787(19) adopted on 23 November 1995 procedures for Port State Control [on line]. [Consultation: 19/07/2017]. Available on: http://www.imo.org/blast/blastDataHelper.asp?data_id=22559&filename=A787.pdf.

- "Real decreto 1695/2012, de 21 de diciembre, por el que se aprueba el Sistema Nacional de Respuesta ante la contaminación marina". BOE Boletín Oficial del Estado [on line]. Madrid: Ministerio de la Presidencia, 2012. 15 gener 2013, núm. 13, p. 1793-1806 [Consultation: 19/07/2017]. Available on: http://www.boe.es/diario_boe/txt.php?id=BOE-A-2013-408.- "Orden FOM/1793/2014, de 22 de septiembre, por la que se aprueba el Plan Marítimo Nacional de respuesta ante la contaminación del medio marino". BOE Boletín Oficial del Estado [on line]. Madrid: Ministerio de la Presidencia, 2014. 4 octubre 2014, núm. 24, p. 79031-79050 [Consultation: 19/07/2017]. Available on: http://www.boe.es/diario_boe/txt.php?id=BOE-A-2014-10063.- "Real Decreto 1837/2000, de 10 de noviembre, por el que se aprueba el Reglamento de inspección y certificación de buques civiles". BOE Boletín Oficial del Estado [on line]. Madrid: Ministerio de la Presidencia, 2000. 28 novembre 2000, núm. 285, p. 41142-41164 [Consultation: 19/07/2017]. Available on: http://www.boe.es/diario_boe/txt.php?id=BOE-A-2000-21432.- "Real Decreto 1434/1999, de 10 de septiembre, por el que se establecen los reconocimientos e inspecciones de las embarcaciones de recreo...". BOE. BOE Boletín Oficial del Estado [on line]. Madrid: Ministerio de la Presidencia, 1999. 11 setembre 1999, núm. 218, p. 33009-33027 [Consultation: 19/07/2017]. Available on: http://www.boe.es/diario_boe/txt.php?id=BOE-A-1999-18663.- Rodrigo de Larrucea, Jaime. Manual del comisario de averías. Madrid: Iberediciones, 1994. ISBN 8479160195.