



Teaching Guide				
Identifying Data				2023/24
Subject (*)	Mangement of Safety, Quality and Maritime Environment	Code	631G01315	
Study programme	Grao en Náutica e Transporte Marítimo			
Descriptors				
Cycle	Period	Year	Type	Credits
Graduate	2nd four-month period	Third	Optional	6
Language	SpanishGalician			
Teaching method	Face-to-face			
Prerequisites				
Department	Ciencias da Navegación e Enxeñaría Mariña			
Coordinador	Cao Feijóo, Genaro	E-mail	genaro.cao@udc.es	
Lecturers	Cao Feijóo, Genaro	E-mail	genaro.cao@udc.es	
Web				
General description	This subject will emphasize knowledge of the legal framework so that students can understand what is based on adequate management of safety on board and the protection of the marine environment. For this, it will be studied in detail the regulations that concern the management of safety, quality and the environment in the maritime field. At the same time, the criteria and techniques of quality management will be applied and environmental sustainability in maritime transport.			

Study programme competences / results	
Code	Study programme competences / results
A54	RA1C-Write, explain and transmit the theoretical knowledge acquired both orally and in writing using scientific-technical language.
A55	RA2C-Identify and relate acquired knowledge to other disciplines
A57	RA4C-Collecting and interpreting relevant data
A58	RA5C-Identify ship components.
A59	RA6C-Identify critical situations and use available means in order to resolve them effectively.
A64	RA112C?Gather objective information in personal interviews
A65	RA116C?Know the national and international regulations applicable to activities related to maritime transport and port operations.
B32	RA10H-Know, analyse, synthesise and apply the contents, fundamental concepts and applications of the subject.
B33	RA11H-Develop both individual and group work
B34	RA12H-Handle bibliographic material and computer resources.
B35	RA13H-Handle with ease the tools, techniques, equipment and/or material/instrumental of each subject.
B107	RA121H?Know and apply the regulations and techniques in matters of maritime transport safety management and protection of the marine environment.
C15	RA17X-Communicating effectively in a work environment.
C16	RA18X-Reviewing compliance with maritime legislative requirements
C17	RA19X-Promote appropriate health and hygiene habits and encourage the interest and cooperation of workers in integrated preventive action.
C40	RA114X?Drafting technical reports.
C41	RA115X?Managing, directing and controlling companies and activities related to the maritime field.
C43	RA118X?Plan and report on inspections, internal and external audits.

Learning outcomes		
Learning outcomes	Study programme competences / results	
RA1C-Write, explain and transmit the theoretical knowledge acquired both orally and in writing using scientific-technical language.	A54	



RA2C-Identify and relate acquired knowledge to other disciplines	A55		
RA4C-Collecting and interpreting relevant data.	A57		
RA5C-Identify ship components.	A58		
RA6C-Identify critical situations and use available means in order to resolve them effectively.	A59		
RA112C-Gather objective information in personal interviews	A64		
RA116C-Know the national and international regulations applicable to activities related to maritime transport and port operations.	A65		
RA10H-Know, analyse, synthesise and apply the contents, fundamental concepts and applications of the subject.		B32	
RA11H-Develop both individual and group work		B33	
RA12H-Handle bibliographic material and computer resources.		B34	
RA13H-Handle with ease the tools, techniques, equipment and/or material/instrumental of each subject.		B35	
RA121H-Know and apply the regulations and techniques in matters of maritime transport safety management and protection of the marine environment.		B107	
RA17X-Communicating effectively in a work environment.			C15
RA18X-Reviewing compliance with maritime legislative requirements			C16
RA19X-Promote appropriate health and hygiene habits and encourage the interest and cooperation of workers in integrated preventive action.			C17
RA114X-Drafting technical reports.			C40
RA115X-Managing, directing and controlling companies and activities related to the maritime field.			C41
RA118X-Plan and report on inspections, internal and external audits.			C43

Contents	
Topic	Sub-topic
1. XESTIÓN DA SEGURIDADE	1.1 Introducción ós sistemas de xestión da seguridade e saúde laboral. 1.2. Estrutura dun sistema de xestión 1.3. Código Internacional de Xestión da Seguridade Operacional do Buque e a Prevencion da Contaminación. 1.4. Medidas que se adoptarán para a protección e salvaguarda de tódalas persoas a bordo nunha emerxencia 1.5. Coñecemento das regras sobre os dispositivos de salvamento (Convenio SOLAS) 1.6. Obrigacións e responsabilidades da empresa navieira e as autoridades portuarias na aplicación do Código IGS. 1.7. Protección del buque y las instalaciones portuarias. 1.7.1. Obrigacións e responsabilidade das autoridades portuarias na aplicación do Código ISPS.
2. XESTIÓN DA CALIDADE	2.1. Introducción ós sistemas de Xestión da Calidade. 2.2. Normas ISO 9000 2.3. O modelo europeo ?EFQM? 2.3.1. Outros estándares de Calidad 2.4. Sistema de Calidad 2.5. Responsabilidade da dirección 2.5.1. A política de Calidad 2.6. Documentación, control de datos, aprobación e expedición
3. XESTIÓN DO MEDIO AMBIENTE MARÍTIMO	3.1. Introducción ós sistemas de Xestión do Medioambiente 3.2. A serie de normas ISO 14000 sobre Xestión Ambiental 3.2.1. Norma ISO 14001:2015 3.3. O Regulamento Europeo ?EMAS? 3.4. Xestión da prevención da contaminación (Convenio MARPOL) 3.5. Normativa nacional



4. AUDITORÍAS	4.1. Comunicaci3n, informes e rexistro 4.2. Elaboraci3n de Plans 4.3. Certificaci3n e instrucci3n 4.4. Auditor e auditoría 4.5. Informe de auditoría 4.6. Seguimento
O desenvolvemento e superaci3n destes contidos, xunto cos correspondentes a outras materias que inclúan a adquisici3n de competencias específicas da titulaci3n, garanten o coñecemento, compresi3n e suficiencia das competencias recollidas no cadro AII/2, do Convenio STCW, relacionadas co nivel de xesti3n de Primeiro Oficial de Ponte da Mariña Mercante, sen limitaci3n de arqueo bruto e Capitán da Mariña Mercante ata o máximo de 3.000 GT.	Cadro A-II/2 del Convenio STCW. Especificaci3n de las normas mínimas de competencia aplicables a Capitáns y primeiros oficiais de ponte de buques de arqueo bruto igual ou superior a 500 GT.

Planning				
Methodologies / tests	Competencies / Results	Teaching hours (in-person & virtual)	Student?s personal work hours	Total hours
Objective test	A55 A58 A65 B32 B107	2	0	2
Supervised projects	A54 A57 A59 B32 B33 B34 B35	5	30	35
Oral presentation	A54 B33 B35 C15	3	18	21
Guest lecture / keynote speech	A55 A58 A64 A65 B107 C16 C17 C40 C41 C43	30	60	90
Personalized attention		2	0	2

(\*The information in the planning table is for guidance only and does not take into account the heterogeneity of the students.

Methodologies	
Methodologies	Description
Objective test	Final exam
Supervised projects	<p>Projects carried out by students (individuals and/or in groups) regarding two contents of the subject.</p> <p>Throughout the four-month period, one or several assignments will be provided around two contents of the agenda that must be based on the basic and complementary bibliography of the guide and with another selected by the teaching staff and/or student pole.</p> <p>Its realization will begin in the classroom and be completed through the autonomous work of the students, attending more indications provided through the differentiation of teachers. Through the exhibition in the classroom, the work done will be shared.</p>
Oral presentation	On the supervised projects
Guest lecture / keynote speech	<p>In the activity of the lecture guest, the contents that make up the theoretical framework will be worked on through oral presentation, guided by the use of presentations, audiovisual media and with the introduction of directed questions to the students with the purpose of favouring learning and the construction of knowledge.</p> <p>There will be an introductory general exposition of each one of the two different themes of which the program consists, indicating the aspects that the students should expand with their personal work, with the appropriate orientations bibliographic.</p>

Personalized attention	
Methodologies	Description



<p>Oral presentation</p> <p>Objective test</p> <p>Supervised projects</p> <p>Guest lecture / keynote speech</p>	<p>A atención personalizada que se describe en relación a estas metodoloxías concíbese como momentos de traballo có profesor da materia.</p> <p>A forma e o momento en que se desenvolverá indicárase en relación con cada actividade ao longo do curso, segundo o plan de traballo da materia.</p> <p>O alumnado con recoñecemento de dedicación a tempo parcial segundo establece a "NORMA QUE REGULA O RÉXIME DE DEDICACIÓN AO ESTUDO E A PERMANENCIA E A PROGRESIÓN DOS ESTUDANTES DE GRAO E MESTRADO UNIVERSITARIO NA UDC" desenvolverá a súa actividade coa asistencia e participación nas dinámicas que se recollen no Paso 4 "Planificación" e neste paso que nos ocupa "Atención personalizada" descrita para os Traballos tutelados, a través dos grupos de traballo que se conformen na materia. A actividade farase atendendo ás observacións da avaliación relativas á flexibilidade de asistencia-participación e aos requisitos para superar a materia.</p>
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Assessment			
Methodologies	Competencies / Results	Description	Qualification
Oral presentation	A54 B33 B35 C15	To evaluate the presentation, it will be evaluate: <ul style="list-style-type: none"> <li>- Relevance and organization of the exposed contents.</li> <li>- Coordination of the presentation (reflecting collaborative work, not a sum of parts).</li> <li>- Level of understanding of the basic contents.</li> <li>- Clear explanation</li> </ul>	10
Objective test	A55 A58 A65 B32 B107	The evaluation criteria referred to in Table A-II/1 of the STCW Code, and collected in the Quality Assurance System, will be taken into account when designing and carrying out the evaluation.	60
Supervised projects	A54 A57 A59 B32 B33 B34 B35	To evaluate the projects it will be taken into account: <ul style="list-style-type: none"> <li>- Structure: presentation, content organization, clear explanation and grammar.</li> <li>- Content: Understanding of basic ideas, conceptual mastery, use of the sources worked on in the treatment of content throughout the semester and relationships between them.</li> </ul>	20
Guest lecture / keynote speech	A55 A58 A64 A65 B107 C16 C17 C40 C41 C43	The evaluation criteria referred to in Table A-II/1 of the STCW Code, and collected in the Quality Assurance System, will be taken into account when designing and carrying out the evaluation.	10

Assessment comments
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- STCW Convention 2010: The evaluation criteria referred to in Table A-II/1 of the STCW Code, and collected in the Quality Assurance System, will be taken into account when designing and carrying out the evaluation.
  - To pass the subject following the continuous evaluation it is necessary to pass each methodology. in-session lecture, at the same time as class attendance ( minimum of 80%), the student participation will be valued too.
- Students who do not follow the continuous assessment will always have the option of taking the objective test. Consequently, under this circumstance, this will have a value in the evaluation of 100%.
- Students with recognition of part-time dedication and the corresponding academic waiver that provide the assistance exemption, as established in the "RULE THAT REGULATES THE DEDICATION REGIME TO THE STUDY OF UNDERGRADUATE STUDENTS AT UDC (Articles 2.3; 3.b; 4.3; 6.b and 7.5) (05/04/2017) may carry out the partial tests, if any, without the need to attend 80% of the face-to-face classes, as long as the teacher is duly informed at the beginning of the course. Notwithstanding the foregoing, the professor can entrust these students with different works (individual and/or in groups) throughout the course to be presented in the tutorial schedule in order to score in the continuous evaluation the proportional part of the value of the master session.
  - About the sanctions applicable for de commission of serious offenses, article 11 of the Disciplinary Regulations of de student body of the University of A Coruña, approved by the Governing Council on 27/02/2023, point b) was amende in june 2023, to read:  
b) Qualification of suspense in the call in wich the fault it was committed, the student will be graded with ?fail? (numerical grade 0) in the corresponding call of the academic year, wheter the commission of the fault occurs at the first opportunity or at the second. For this, we will proceed to modify his qualification in the minutes of the first opportunity, if necessary.

#### Sources of information



<p><b>Basic</b></p>	<ul style="list-style-type: none"> <li>- OMI (2018). Código IGS : Código internacional de gestión de la seguridad y Directrices para la implantación del Código IGS. Londres</li> <li>- IMO (). MARPOL 73/78. LONDON</li> <li>- IMO (2009). Manual sobre contaminación química. . LONDRES</li> <li>- IMO (2011). Directrices para la elaboración de planes de emergencia de a bordo contra la contaminación del mar . LONDRES</li> <li>- IMO (2011). Manual sobre la contaminación ocasionada por hidrocarburos. . LONDRES</li> <li>- IMO (2007). Directrices relativas al Convenio sobre la prevención de la contaminación del mar por vertimiento de desechos y otras materias, 1972. . LONDRES</li> <li>- IMO (2007). Equipo de prevención de la contaminación conforme al MARPOL . LONDRES</li> <li>- IMO (2010). Manual on oil spill risk evaluation and assessment of response preparedness . London</li> <li>- (1996). La contaminación del mar fuentes, toxicidad, degradación y eliminación de contaminantes . Oviedo : Universidad, Servicio de Publicaciones</li> <li>- OMI (). Código Internacional de Gestión de la Seguridad (Código IGS) y Directrices revisadas para la implantación del Código IGS. . Londres</li> <li>- OMI (). Código Internacional para la Protección de los Buques y de las Instalaciones Portuarias (Código PBIP). Londres</li> <li>- IMO (1994). International Safety Management (ISM Code).</li> <li>- Abril Sánchez, Cristina Elena (). Integración de sistemas de gestión : calidad, medio ambiente y seguridad y salud en el trabajo. Madrid Fundación Confemetal</li> <li>- Boat Books Australia (2010). Response to marine oil spills . Livingston : Witherby Seamanship International Ltd. Australia</li> <li>- Chauvel, Alain-Michel (1997.). Managing Safety and Quality in Shipping. London: The Nautical Institute</li> <li>- Cuatrecasas Arbós, Lluís (2017). Gestión integral de la calidad : implantación, control y certificación. Barcelona</li> <li>- Fernández Hatre, Alfonso (2003). Sistemas integrados de gestión : calidad, gestión medioambiental, prevención de riesgos laborales. Llanera : Instituto de Desarrollo Económico del Principado de Asturias</li> <li>- Kuo, Chengi (1998). Managing ship safety. Ed. LLP. 1998. London</li> <li>- López Lemos, Paloma (2015). Cómo documentar un sistema de gestión de calidad según ISO 9001:2015. Madrid</li> <li>- Moreno Redondo, Mª del Mar. (2002). Código IGS y sus auditorías.</li> <li>- Sánchez Rivero, José Manuel. (2016). mplantación de sistemas de gestión de la calidad : la norma ISO 9001:2015. Madrid</li> <li>- Silos Rodríguez, José María (2008). Manual de lucha contra la contaminación por hidrocarburos . Cádiz : Servicio de Publicaciones de la Universidad de Cádiz</li> <li>- Vidal Vázquez, Estrella (2014). La calidad y su gestión en las organizaciones gallegas propuesta de un modelo de gestión de la calidad total basado en el Modelo EFQM de Excelencia.</li> <li>- IMO (2014). ISM code : International safety management code with guidelines for its implementation.. London</li> <li>- IMO (2002). International Safety Management Code ISM Code : and Revised guidelines on implementation of the ISM Code by Administrations. London</li> <li>- BOE (2010). Ley 41/2010 de Protección del Medio Marino. España</li> <li>- Ministerio para la Transición Ecológica (2019). Ordenación del Espacio Marítimo. Catálogo de Publicaciones de la Admon. Gral. Estado Español</li> <li>- Ministerio para la Transición Ecológica (2018). RD 957/2018 modifica anexo I de la ley 41/2010. España</li> <li>- Diario Oficial de la UE (2008). Directiva 2008/56/CE Marco de acción comunitaria para la política del medio marino. Parlamento Europeo</li> </ul>
<p><b>Complementary</b></p>	

**Recommendations**



Subjects that it is recommended to have taken before

Subjects that are recommended to be taken simultaneously

Subjects that continue the syllabus

Other comments

?As stated in the different regulations of application for university teaching, the gender perspective must be incorporated in this matter (Non-sexist language will be used, bibliography of authors of both sexes will be used, te intervention in class of students will be encouraged. Work will be done to identify and modify prejudices and sexist attitudes and will influence the environment to modify them and promote values of respect and equality. Situations of discrimination based on gender should be detected and actions and measures proposed to correct them?.

(\*)The teaching guide is the document in which the URV publishes the information about all its courses. It is a public document and cannot be modified. Only in exceptional cases can it be revised by the competent agent or duly revised so that it is in line with current legislation.