		Teaching	g Guide			
	Identifyin	g Data			2023/24	
Subject (*)	Maritime Safety	Maritime Safety			631G01211	
Study programme	Grao en Náutica e Transporte Ma	rítimo				
		Descri	ptors			
Cycle	Period	Yea	ar	Туре	Credits	
Graduate	2nd four-month period	Seco	ond	Obligatory	6	
Language	Spanish					
Teaching method	Face-to-face					
Prerequisites						
Department	Ciencias da Navegación e Enxeña	aría Mariña				
Coordinador	Lama Carballo, Francisco Javier		E-mail	javier.lama@ud	dc.es	
Lecturers	Lama Carballo, Francisco Javier		E-mail	javier.lama@ud	dc.es	
	Pacheco Martínez, Eliseo Antonio			eliseo.pacheco	@udc.es	
	Pérez Canosa, José Manuel			jose.pcanosa@	udc.es	
Web		'		,		
General description	NORMATIVA.					
	SEGURIDADE A bordo.					
	PREVENCIÓN E LOITA CONTRAINCENDIOS.					
	SUPERVIVENCIA NO MAR.					

Code Study programme competences B41 RA28H?Transmitting and receiving information by visual signals B43 RA35H?Operate life-saving appliances B48 RA43H?Coordinate search and rescue operations B64 RA65H?Conduct fire-fighting operations on tankers. B76 RA71H?Carry out fire-fighting operations on lankers. B77 RA74H?Survival at sea in the event of abandonment of the vessel. B78 RA74H?Survival at sea in the event of abandonment of the vessel. B79 RA75H?Minimise fire risks, and maintain a state of readiness to respond to fire emergencies at all times. B79 RA76H?Fighting and extinguishing fires. B70 RA77H?Take immediate action in the event of an accident or other medical emergency. B71 RA78H?Comply with emergency procedures. B72 RA78H?Comply with emergency procedures. B73 RA79H?Take precautions to prevent pollution of the marine environment. B79 RA80H?Observe safe working practices. B80 RA81H?Contribute to effective communications on board the ship. B81 RA82H?Contribute to good human relations on board the ship. B82 RA83H?Understand and take the necessary measures to manage fatigue. B83 RA85H?Running the engine of a survival craft. B84 RA87H?Use locating devices, including communication and signalling devices and pyrotechnic signals. B85 RA88H?Providing first aid to survivors. B86 RA89H?Control fire-fighting operations on board. B87 RA90H?Organise and train fire detection and extinguishing systems and equipment. B88 RA91H?Inspect and maintain fire detection and extinguishing systems and equipment. B89 RA92H?Investigate and compile reports on fire incidents. B101 RA104H?Assisting passengers on their way to assembly and embarkation stations C21 RA26X?Responding to distress signals at sea C26 RA34X?Preventing, controlling and fighting fires on board						
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C35	RA56X?Maintaining the safety and security of the ship, crew and passengers, and the proper functioning of life-saving, fire-fighting and
	other safety systems
C36	RA84X?Taking charge of a survival craft or rescue boat during and after launching.
C37	RA86X?Organise survivors and survival craft after abandoning ship.

Learning outcomes		
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	competen	ces
RA28H-Transmitting and receiving information by visual signals	B41	
RA35H-Operate life-saving appliances	B43	
RA43H-Coordinate search and rescue operations	B48	
RA65H-Conduct fire-fighting operations on tankers.	B64	
RA71H-Carry out fire-fighting operations on liquefied gas tankers.	B70	
RA74H-Survival at sea in the event of abandonment of the vessel.	B73	
RA75H-Minimise fire risks, and maintain a state of readiness to respond to fire emergencies at all times.	B74	
RA76H-Fighting and extinguishing fires.	B75	
RA77H-Take immediate action in the event of an accident or other medical emergency	B76	
RA78H-Comply with emergency procedures.	B77	
RA79H-Take precautions to prevent pollution of the marine environment.	B78	
RA80H-Observe safe working practices.	B79	
RA81H-Contribute to effective communications on board the ship.	B80	
RA82H-Contribute to good human relations on board the ship.	B81	
RA83H-Understand and take the necessary measures to manage fatigue.	B82	
RA85H-Running the engine of a survival craft.	B83	
RA87H-Use locating devices, including communication and signalling devices and pyrotechnic signals.	B84	
RA88H-Providing first aid to survivors.	B85	
RA89H-Control fire-fighting operations on board.	B86	
RA90H-Organise and train fire-fighting crews.	B87	
RA91H-Inspect and maintain fire detection and extinguishing systems and equipment.	B88	
RA92H-Investigate and compile reports on fire incidents.	B89	
RA104H-Assisting passengers on their way to assembly and embarkation stations	B101	
RA26X-Responding to distress signals at sea		C21
RA34X-Preventing, controlling and fighting fires on board		C26
RA39X-Contributing to the safety of personnel and the vessel		C28
RA56X-Maintaining the safety and security of the ship, crew and passengers, and the proper functioning of life-saving,		C35
fire-fighting and other safety systems		
RA84X-Taking charge of a survival craft or rescue boat during and after launching.		C36
RA86X-Organise survivors and survival craft after abandoning ship.		C37

Contents		
Topic	Sub-topic	

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RASIC	TRAININ	(- 11N1	$\leq \Delta \vdash \vdash \vdash \lor$

Types of emergency situations that can occur, such as collisions, fires, or sinking

Types of life-saving devices normally carried on ships.

Survival Craft Equipment

Location of personal lifesaving devices

Principles related to survival, including:

- .1 usefulness of training and exercises
- .2 personal protective clothing and equipment
- .3 need to be prepared for any emergency
- .4 steps to take when called to survival craft stations
- .5 actions to be taken when requested to abandon ship
- .6 actions to take when in the water
- .7 actions to be taken on board the craft

survival

.8 main dangers for survivors

Organization of fire fighting on board

Location of fire-fighting devices and

escape routes in case of emergency

Elements of fire and explosion (the fire triangle)

Types and sources of ignition

Flammable materials, risk of a fire being produced and spread

fire

Need for constant vigilance

Measures to be taken on board ships

Fire and smoke detection, and automatic alarm systems

Classification of fires and extinguishing agents that

can be used

Fire fighting equipment and its location on board

Instruction in:

- .1 fixed installations
- .2 fire fighting equipment
- .3 personal equipment
- .4 fire fighting devices and equipment
- .5 fire fighting methods
- .6 fire fighting officers
- .7 fire fighting procedures
- .8 use of respiratory equipment for fire fighting and rescue operations

Comply with emergency procedures

Take precautions to prevent pollution of the marine environment.

Observe safe work practices

Contribute to communications on board the ship being effective and good

Take immediate action in the event of an accident or other type of medical emergency



Understand and adopt the necessary measures to control the fatigue

1 TAKE CHARGE OF A SURVIVAL VESSEL OR RESCUE BOAT, DURING AND
AFTER LAUNCHING
2 HANDLING THE ENGINE OF A SURVIVAL BOAT
3 ORGANIZE THE SURVIVORS AND THE SURVIVAL VESSEL AFTER LEAVING
THE SHIP.
4 USE LOCATION DEVICES: COMMUNICATIONS EQUIPMENT, SIGNALING AND
PYROTECHNICAL SIGNALS
5 PROVIDE FIRST AID TO SURVIVORS.
1 CONTROL OF FIGHTING OPERATIONS C.I.
ORGANIZATION OF THE FIGHT C.I.
2 INSPECTION AND MAINTENANCE OF THE FIRE DETECTION AND
EXTINGUISHING SYSTEMS AND EQUIPMENT
3 INVESTIGATION AND COLLECTION OF REPORTS ON INCIDENTS IN WHICH
THEY OCCUR
Table A-II/2 of the STCW Agreement.
Specification of the minimum competency standards applicable to Captains and first
deck officers of ships with a gross tonnage equal to or greater than 500 GT.

	Planning			
Methodologies / tests	Competencies	Ordinary class	Student?s personal	Total hours
		hours	work hours	
Guest lecture / keynote speech	B48 B74 B76 B77	30	65	95
	B78 B79 B80 B81			
	B82 B85 B86 B87			
	B88 B89 B101 C21			
	C26 C28 C35			
Field trip	B41 B43 B64 B70	30	10	40
	B73 B75 B80 B83			
	B84 B85 B86 B88			
	B89 B101 C36 C37			
Objective test	B41 B64 B70 B73	9	0	9
	B74 B75 B77 B79			
	B86 B87 C26 C28			
	C35			
Personalized attention		6	0	6

	Methodologies
Methodologies	Description

Guest lecture /	Oral presentation complemented by the use of audiovisual media and the introduction of some questions addressed to				
keynote speech	students, in order to transmit knowledge and facilitate learning.				
	The master class is also known as a conference", "expository method" or "master lesson". This				
	last modality seems to be reserved for a special type of lesson given by a teacher on special occasions, with a content that				
	supposes an original elaboration and based on the almost exclusive use of the word as a means of transmitting information to				
	the audience.				
Field trip	Practices in the UDC nautical instalations, practices in boats and C.I. Activities developed in an external context to the				
	university academic environment				
Objective test	Written test used for the evaluation of learning, whose distinctive feature is the possibility of determining if the answers given				
	are correct or not. It constitutes a measurement instrument, rigorously elaborated, that allows to evaluate knowledge,				
	capacities, skills, performance, etc.				
	The objective test can combine different types of questions: multiple-choice, short-answer, and/or development questions. It				
	can also be built with a single type of any of these questions.				

Personalized attention			
Methodologies	Description		
Field trip	Tutorials at the established time.		
Guest lecture /			
keynote speech			
Objective test			

		Assessment	
Methodologies	Competencies	Description	Qualification
Field trip	B41 B43 B64 B70	Mandatory to pass them to do average	0
	B73 B75 B80 B83		
	B84 B85 B86 B88		
	B89 B101 C36 C37		
Guest lecture /	B48 B74 B76 B77	Class attendance	0
keynote speech	B78 B79 B80 B81		
	B82 B85 B86 B87		
	B88 B89 B101 C21		
	C26 C28 C35		
Objective test	B41 B64 B70 B73	Final exam (it is necessary to pass it to take into account the other methodologies)	100
	B74 B75 B77 B79		
	B86 B87 C26 C28		
	C35		

Assessment comments



To pass the subject by continuous assessment, the minimum attendance at the master sessions will be 80%.

To pass the subject by continuous assessment, the minimum attendance at the compulsory practices will be 100%.

The obligatory practices of the subject, along with passing the rest of the methodologies, are associated with obtaining the following certificates: Basic Training in Safety and Survival Craft and Non-Fast Rescue Boats. In order to obtain said certificates, it will also be mandatory to carry out 100% of these practices.

The mandatory practices consist of 30 contact hours, 40 hours in total, as can be seen in step 4. Of these 30 contact hours, 8 hours correspond to Basic Fire Fighting.

The Advanced Fire Fighting Course is presented as an elective for students and consists of 33 H. Students who wish to obtain this Certificate must complete the remaining 25 H of the course and that are out of planning.

The evaluation criteria contemplated in table A-II/1 of the STCW Code, and included in the Quality Assurance System, will be taken into account when designing and carrying out the evaluation.

Students with recognition of part-time dedication and academic exemption from attendance exemption, second establishes the "RULE THAT REGULATES THE REGIME OF DEDICATION TO THE STUDY OF UNDERGRADUATE STUDENTS AT UDC (Articles 2.3; 3. b; 4.3 and 7.5) (05/04/2017) may take the partial tests, if necessary, without having to attend 80% of the face-to-face classes, as long as the teachers are duly informed at the beginning of the course. These students may be asked to do different jobs/problems throughout the course to be exposed during lecture hours. Due to the very nature of the practices, which are not recoverable, no academic waiver is contemplated for their evaluation. The fraudulent performance of the tests or evaluation activities will imply the qualification of fail in the call in which the offense is committed and the student will be graded with "suspense" (numerical grade 0) in the corresponding call of the academic year, both if the commission of the foul occurs in the first how in the second opportunity. To do this, its qualification will be modified in the first opportunity certificate if necessary.

Sources of information

Basic

SOLAS consolidated edition 2020. Consolidated text of the International Convention for the Safety of Life at Sea, 1974. International Maritime Organization. London. 2020Código internacional de dispositivos de salvamento (Código IDS). Edición 2017. Organización Marítima Internacional. Londres. 2017Código Internacional de Sistemas de Seguridad Contra Incendios (Código SSCI). Edición 2015. Organización Marítima Internacional. Londres. 2016Manual IAMSAR. Vol III. Manual internacional de los servicios aeronáuticos y marítimos de búsqueda y salvamento. Edición 2019. OMI/OACI. Londres/ Montreal. 2019MSC.1/Circ.1182/Rev.1. Guía sobre las Técnicas de Rescate. IMO. 2014MSC.1/Circ.1185/Rev.1. Guía para la Supervivencia en Aguas Frías. IMO. 2012A.918(22) IMO Standard Marine Communication Phrases.Model course 1.19. Proficiency in personal survival techniques. 2019 Edition. International Maritime Organization. London. 2019Model Course 1.20. Fire Prevention and Basic Fire Fighting. 2000 Edition. International Maritime Organization. London. 2001Model Course 1.21. Personal safety and social responsibilities. 2016 Edition. International Maritime Organization. London. 2016 Model course 1.23. Proficiency in survival craft and rescue boats other than fast rescue boats. 2000 Edition. International Maritime Organization. London. 2016Model Course 2.03. Advanced training in fire fighting. 2000 Edition. International Maritime Organization. London. 2001

Complementary

Model course 3.05. Survey of fire appliances and provisions. 2004 Edition. International Maritime Organization.

London. 2004Model course 3.06. Survey of life-saving appliances and arrangements. 2004 Edition. International Maritime Organization. London. 2004Model course 3.11. Safety investigation into marine casualties and marine incidents. 2014 Edition. International Maritime Organization. London. 2014Model course 1.39. Leadership and teamwork. 2014 Edition. International Maritime Organization. London. 2004 Manual de Formación SOLAS. Dispositivos de salvamento y Técnicas de supervivencia. I.C. Brindle & Dispositivos de salvamento y Técnicas de supervivencia. I.C. Brindle & Marí Sagarra, Enrique González Pino. Instituto Social de la Marina. Madrid. 1990Técnicas, sistemas y organización de la prevención, protección y lucha contra incendios en los buques. Ricard Marí Sagarra. Enrique González Pino. Instituto Social de la Marina. Madrid. 1989The Naval Handbook for Ship Fire Fighters. 8th Ed. The Nautical Institute. London. 2006Marine Survival. D.J. House. 3rd Ed. Witherby. Edinburgh. 2011



Recommendations

Subjects that it is recommended to have taken before

Naval Hygiene and Risks at Work/631G01104

Naval Construction/631G01105

Chemistry/631G01107

English I/631G01108

Subjects that are recommended to be taken simultaneously

English II/631G01205

Subjects that continue the syllabus

Collision Rules, Signals, Bouyage Systems and ISM Code/631G01303

Maritime Radiocommunications/631G01307

Tankers/631G01308

BRM & ISM & ISPS/631G01376

Other comments

(*)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.