



GOBIERNO
DE ESPAÑA

MINISTERIO
DE TRANSPORTES
Y MOVILIDAD SOSTENIBLE



Salvamento Marítimo
Centro Jovellanos

The mission of Centro Jovellanos is to implement, develop and design comprehensive rescue and maritime safety training systems that are high quality, highly specialised, certified, innovative, and sustainable to ensure the most remarkable levels of professional training.

Train, provide, reduce, innovate and guarantee are the five key goals of the Jovellanos Centre, which is the training centre of the **Spanish Maritime Search and Rescue Agency**, a public entity dependent on the **Ministry of Transport and Sustainable Mobility**.

COURSE

SHIP-HANDLING IN THE SIMULATOR. LEVEL 1

TARGET GROUP

Graduates in Marine and in Nautical and Maritime Transport or students who have completed the third year of any of these studies:

- . Higher Technician in Maritime Transport and Deep-sea Fishing
- . Merchant Navy pilots with little sailing experience.

TRAINING

Goal: Practise the theoretical knowledge acquired in almost real situations and using real equipment.

LENGTH

The course consists of 18 certified teaching hours delivered over 3 days.

PROGRAMME

Update on basic ship-handling and navigation concepts, including some new technologies available.

Practical training:

Familiarisation with the simulator.

Passage Plan.

Communications in the eNavigation era.

Ship-handling with Azi-pods.

River navigation.

Anchoring.

Using tugboats (escort).

The scenarios and the models used in the simulations have been chosen for their didactic potential, with a view to transferring students to realistic situations that are common in today's seas.

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COURSE SHIPHANDLING WITH LARGE VESSELS

TARGET GROUP

This course has been designed for captains, officers of the watch, port pilots, and port operations managers who want to learn current techniques when handling large vessels.

The permanent increase in the size of vessels, and technological innovations in the field of propulsion and manoeuvrability, require professionals to keep abreast of new systems. This course intends help in this task by offering theoretical and practical training on the most common types of modern large vessels, such as VLCCs, large bulkcarriers, large container ships, and LNG carriers.

TRAINING

Objective: The course is based on theoretical introductions to the shiphandling manoeuvres to be performed; all real cases affecting large vessels in Spanish ports. Then these manoeuvres shall be carried out in the simulators. A pilot accustomed to some of these manoeuvres shall offer his views.

The last day focusses on the use of azimuthal tugboats for these manoeuvres, including exercises involving indirect direct and indirect towing.

DURATION

The course consists of 18 certified hours, it´s delivered over a period of 3 days.

PROGRAMME

Updated shiphandling concepts.
Familiarisation with the simulator. Shiphandling with large container vessels.

Practical training: The practical training shall take place in a simulator that has three bridges with a 360º horizontal field of view. Two of them can act as tugboats, with real lines, which achieves a remarkable level of realism even in the most complicated manoeuvres, such as the indirect towing.

The exercises are programmed in the same ports that receive these vessels today, such as the enlargement at Barcelona, the new dock at El Musel or Isla Verde in Algeciras.

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COURSE INTRODUCTION TO STANDARD MARITIME COMMUNICATION PHRASES (SMCP) BLENDED LEARNING

TARGET GROUP

Captains and Officers of the Merchant Marine, MRCC/VTS Operators, Pilots, Port Operators (Shipping Agents, Stevedoring Companies).

TRAINING

Goals: Use SMCP and communicates effectively in line with their roles and responsibilities. Send and respond to Emergency, Traffic, and Port Operations messages and alerts following standard communications. Correct use of the English language when handling crises in a maritime environment. Appropriate use of the message markers established by the SMCP in its communications. Difference between emergency, safety, distress, SAR and routine communications. Establish correct communications with other agents in the port environment, as well as with services related to other maritime activities. Correct oral communication in English (intonation, rhythm, pronunciation...)

Methodology: Theoretical presentation of concepts, procedures and modelling techniques. In addition to the contents of the virtual campus and the teaching resources available on it, the teaching staff will mainly use active methods based on active listening and repetition by the students of the recommended SMCP terms and

phrases in the specific situations presented, simulating real situations that demonstrate and highlight which terminology should be used in each specific situation.

LENGTH

The course consists of 30 teaching hours that will be delivered over 3 days at the Jovellanos Centre, plus 5 days on the virtual campus.

PROGRAMME

- Introduction to standard maritime English
- SMCP overview
- Phonology
- SAR and VTS communications in port operations.

Practical training:

The practical sessions will include the use of VTS, Manoeuvring and Navigation, and Emergency Management simulators as tools to generate a context in which to practice SAR and VTS communications in port operations.



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COURSE INTRODUCTION TO SAR MANEUVERS USING TUGBOATS

TARGET GROUP

Directed at officers of the merchant marine who serve on board rescue tugboats.

TRAINING

Objective: The course has been designed for small groups of 6 trainees and focusses on practical, "hands on" training, based on replicating a number of SAR towing scenarios using azimuthal tugs.

DURATION

The course consists of 18 certified hours, it´s delivered over a period of 3 days.

PROGRAMME

Familiarisation exercises.
Approaching and pushing.
Berthing.
Approaching small vessels.
Towing exercises.
Final combined exercise.

Practical training: The practical exercises will be carried out in the various bridges with a 360° field of vision. The models used are similar to those existing in the SASEMAR fleet.

The teaching staff consists of captains currently working in the fleet.

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COURSE

AZIMUTHAL TUGS

TARGET GROUP

Captains and officers of the merchant marine with an interest in manoeuvres involving vessels with azimuthal propulsion. No prerequisites are needed, although experience working on tugboats is Advisable

TRAINING

Objective: Learn the particularities of azimuth propulsion in a practical scenario and achieve the skills required to embark on this professional career, in this demanding field, with safety.

DURATION

The course consists of 18 certified hours, it´s delivered over a period of 3 days.

PROGRAMME

Evolution of tugboats.
Types of tugboats.
Physical principles of manoeuvring with tugboats
Practical training:
Navigation with azimuth thrusters.
Dynamic approach.
Towing operations.
Indirect towing exercises.
Emergency response.

SIMULATOR

The practical exercises shall take place in “full mission bridge” shiphandling and navigation simulators with a 360° view

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COURSE

BRIDGE RESOURCE MANAGEMENT – BLENDED LEARNING

TARGET GROUP

Captains, Pilots 1st and 2nd class of the M.M. and Civil Navy graduates.

TRAINING

Objective:: In compliance with the requirements and recommendations of STCW Section B-VIII/2 Part 3-1, to instruct trainees in Bridge Resource Management principles, processes, and procedures to enhance the safety of maritime navigation.

Learn to lead the crew on the bridge using the command (authority) and leadership (influence) style that best adapts to the crew and the situation.

Learn how to assign and delegate tasks to the crew and obtain the cooperation, coordination, and motivation necessary to execute said tasks.

Practice effective techniques to communicate with the crew to reduce mistakes and the interference of communications on the bridge (internal and external).

LENGTH

The course consists of 40 teaching hours over 10 days; the first 8 are given via the Virtual Campus and the last 2 are in person.

PROGRAMME

Situation Awareness.
Attitudes and Management Skills.
Cultural Awareness.
Communication and Briefings.
Authority and Assertiveness.
Challenge and Response.
Short Term Strategy.
Management Styles.
Workload.
State of the Ship.
Human Involvement in Error.
Judgment and Decision Making.
Leadership in Emergencies .
Crisis Management.
Automation Awareness.

Practical Training: Practical exercises performed on the ship handling and navigation simulator, using the All Academy approach.

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