

## SUBJECT TEACHING GUIDE

### G1045 - Health Training and Quality

#### Degree in Nautical Engineering and Maritime Transport

Academic year 2023-2024

1. IDENTIFYING DATA					
Degree	Degree in Nautical Engineering and Maritime Transport			Type and Year	Compulsory. Year 2
Faculty	School of Maritime Engineering				
Discipline	Subject Area: Quality and Health Training Module: Marine and Nautical Training				
Course unit title and code	G1045 - Health Training and Quality				
Number of ECTS credits allocated	6	Term	Semester based (2)		
Web					
Language of instruction	Spanish	English Friendly	No	Mode of delivery	Face-to-face

Department	DPTO. ENFERMERIA
Name of lecturer	PAULA PARAS BRAVO
E-mail	paula.paras@unican.es
Office	Facultad de Enfermería. Planta: + 2. DESPACHO (222)
Other lecturers	MANUEL HERRERO MONTES ANTONIO IGNACIO MALANDA MARTINEZ

### 3.1 LEARNING OUTCOMES

- Conforms to the requirements of the STCW Code as amended (Manila Convention)

- Marine Engineering Degree:

- Know how to solve health problems on board.
- Know how to solve problems on quality and safety management applied to the ship. and ship management audits.
- Provide first aid on board according to the requirements of section A-III/1 of the STCW Code.
- Contribute to the safety of personnel and the vessel in accordance with the requirements of section A-III/1 of the STCW Code.

- Results

Degree in Maritime Engineering:

- Know how to solve health problems on board.
- Know how to solve problems on quality and safety management applied to the ship. and ship management audits.

- Degree in Nautical Engineering and Maritime Transport:

- Know how to solve maritime health and quality problems.
- On quality and safety management systems applied to the ship, ship management audits and maritime health training.
- Provide first aid on board in accordance with the requirements of section A-II/1 of the STCW Code.
- Inspect and report defects and damage in cargo spaces, hatches and ballast tanks in accordance with the requirements of section A-II/1 of the STCW Code.

### 4. OBJECTIVES

Degree in Marine Engineering:

- Medical assistance: Practical application of medical guides and advice transmitted by radio, and ability to act effectively following that information in the event of accidents or illnesses that can be foreseen on board, in accordance with section AIII/1 of the STCW
- Knowledge of basic first aid, according to section AIII/1 of the STCW.

Degree in Maritime Engineering:

- Medical assistance: Practical application of medical guides and advice transmitted by radio, and ability to act effectively following this information in the event of accidents or illnesses that can be foreseen on board. According to section AIII/1 of the STCW
- Knowledge of basic first aid. Pursuant to section AIII/1 of the STCW

Degree in Nautical Engineering and Maritime Transport:

- Medical assistance: Practical application of medical guides and medical advice transmitted by radio, and the ability to act effectively following that information in cases of accidents or illnesses that can be foreseen on board . Pursuant to section AII/1 of the STCW.
- Knowledge of basic first aid. Pursuant to section AIII/1 of the STCW
- Knowledge of the procedures to carry out inspections, in accordance with section AII/1 of the STCW.
- Understanding of the objectives of the "Enhanced Reconnaissance Program", according to section AII/1 of the STCW.

Quality. Common to the three Grades (Navy, Maritime, Nautical)

- Knowledge of quality concepts, management systems and quality tools. Understanding of the situation and application of said knowledge in companies, organizations or estates
- Ability to implement actions and tools for continuous improvement in companies, organizations or estates

## 6. COURSE ORGANIZATION

### CONTENTS

1	<p>Health Training</p> <ul style="list-style-type: none"> <li>-Basic life support and approach to the main emergency situations: general, cardiac, neurological and traumatological.</li> <li>-Public Health and preventive medicine on board a ship. Prophylactic measures and isolation.</li> <li>-Pharmacology, medication administration and control of the ship's first aid kit.</li> </ul> <p>Practices</p> <ul style="list-style-type: none"> <li>-Practice 1: Physical examination and constants</li> <li>-Practice 2: Medication administration</li> <li>-Practice 3: Exploration and extraction of foreign body in the eye and ears</li> <li>-Practice 4: Bandages</li> <li>-Practice 5: Venous Access</li> <li>-Practice 6: CPR and DESA</li> <li>-Practice 7: Immobilize-Mobilize</li> <li>-Practice 8: Sutures</li> </ul>
2	<p>quality concept</p> <ul style="list-style-type: none"> <li>-Different approaches to quality History of quality</li> <li>-Evolution of quality from its origins to the present moment</li> <li>-The teachings of the gurus: Deming, Juran, Crosby, Ishikawa</li> </ul> <p>Continuous improvement tools</p> <ul style="list-style-type: none"> <li>-Deming circle of continuous improvement</li> <li>-Total quality, EFQM and ISO 9001. Standardization</li> <li>-Lean Manufacturing</li> <li>-The 5s model</li> <li>-Kaizen method</li> <li>-affinity diagram</li> <li>-The 5 whys</li> <li>-Six Sigma Analysis</li> <li>-Benchmarking</li> <li>-Jidoka method</li> </ul> <p>Basic quality tools</p> <ul style="list-style-type: none"> <li>-The 7 basic tools of quality</li> </ul> <p>Inspection and management audits</p> <ul style="list-style-type: none"> <li>-Introduction to ship inspection</li> <li>-Introduction to auditing management systems</li> </ul>

## 7. ASSESSMENT METHODS AND CRITERIA

Description	Type	Final Eval.	Reassessn	%
Health Training Exam	Written exam	Yes	Yes	50,00
Quality Exam	Written exam	No	Yes	30,00
Quality Practices in the classroom	Others	No	No	15,00
Quality group work	Work	No	No	5,00
<b>TOTAL</b>				<b>100,00</b>
Observations				
Observations for part-time students				

## 8. BIBLIOGRAPHY AND TEACHING MATERIALS

### BASIC

Instituto Social de la Marina. Guia Sanitaria a Bordo. 2021.

Gräsner JT, Herlitz J, Tjelmeland IBM, Wnent J, Masterson S, Lilja G, Bein B, Böttiger BW, Rosell-Ortiz F, Nolan JP, Bossaert L, Perkins GD. European Resuscitation Council Guidelines 2021. Resuscitation. 2021 Apr;161:1-432.

Miranda González, Fco. J., Chamorro Mera, A., Rubio Lacoba, S. (2007). Introducción a la Gestión de la Calidad". Delta publicaciones.

Casadeus Fa, M., Heras Saizarbitoria, I., Merino Díaz de Cerio, J.M. (2005). Calidad práctica. Una guía para no perderse en el mundo de la calidad. Prentice Hall, Finacial Times.

Pérez Marqués M. (2014). Control de calidad. Técnicas y herramientas. RC libros.

Gómez Martínez J.A. Guía para la aplicación de UNE-EN ISO 9001:2015. Aenor ediciones