

# Postgraduate Diploma Naval Management and Operations





## Postgraduate Diploma Naval Management and Operations

- » Modality: online
- » Duration: 6 months
- » Certificate: TECH Global University
- » Credits: 24 ECTS
- » Schedule: at your own pace
- » Exams: online

Website: [www.techtute.com/us/engineering/postgraduate-diploma/postgraduate-diploma-naval-management-operations](http://www.techtute.com/us/engineering/postgraduate-diploma/postgraduate-diploma-naval-management-operations)

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01

# Introduction

Managing and operating shipyards and other marine facilities requires professionals to have specific knowledge. Therefore, it is of vital importance to be up to date with the documentation and regulations specific to the field. This program offers students the opportunity to update their knowledge from prominent professionals in the field.



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*Being responsible for managing shipyards or other types of marine facilities requires specific knowledge. At TECH we want to offer you the best education so you can achieve your objectives”*

The Postgraduate Diploma in Naval Management and Operations is a program of the highest academic level that aims to educate professionals in the field, enabling them to carry out their work with the highest quality and safety requirements. It is a very complete program, imparted by professionals with years of experience, and which includes the latest advances in the field.

The Postgraduate Diploma will present the scope of basic structural, outfitting and electrical engineering as a basis for detailed engineering, as well as the necessary requirements for documentation and mandatory calculations to obtain approval from shipowners, classification societies and the flag authority. Innovation areas in basic naval engineering today, such as the use of 3D modeling tools and innovative virtual reality methodologies, will also be discussed. Another important point in naval engineering is to be familiar with the negotiation and feasibility processes that takes place at the beginning of projects. Thus, students will acquire the skills to define project design bases or conduct market and feasibility studies; and they will learn how to prepare budgets at different levels of precision, at both the CAPEX and the OPEX level.

Finally, students will be able to go through everything that affects naval vessels or crafts from the moment they leave the shipyard to being withdrawn from service. The necessary documentation for a ship to go to sea and start undertaking the activity for which it was designed will be thoroughly analyzed.

It should be noted that, as this is a 100% online Postgraduate Diploma, students are not constrained by fixed schedules or commutes, but can access the contents at any time of the day, balancing their work or personal life with their academic life.

The **Postgraduate Diploma in Naval Management and Operations** contains the most complete and up-to-date educational program on the market. The most important features include:

- ◆ Case studies presented by experts in naval engineering
- ◆ The graphic, schematic, and practical contents with which they are created, provide scientific and practical information on the disciplines that are essential for professional development
- ◆ Practical exercises where self assessment can be used to improve learning
- ◆ Special emphasis on innovative methodologies in naval management and operations
- ◆ Theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection assignments
- ◆ Content that is accessible from any fixed or portable device with an Internet connection



*The completion of this Postgraduate Diploma will place Naval Engineering professionals at the forefront of the latest developments in the sector”*

“

*This Postgraduate Diploma is the best investment you can make when selecting a refresher program in Naval Management and Operations. We offer you quality and free access to content”*

The teaching staff includes professionals in naval engineering, who bring their experience to this training program, as well as renowned specialists from leading societies and prestigious universities.

The multimedia content, developed with the latest educational technology, will provide the professional with situated and contextual learning, i.e., a simulated environment that will provide immersive specialization programmed to learn in real situations.

This program is designed around Problem-Based Learning, whereby the professional must try to solve the different professional practice situations that arise throughout the program. To that purpose, students will be assisted by an innovative, interactive video system created by renowned and extensively experienced experts in naval management and operations.

*This program comes with the best educational material, providing you with a contextual approach that will facilitate your learning.*

*This 100% online Postgraduate Diploma will allow you to combine your studies with your professional work. You choose where and when to train.*



# 02

# Objectives

The Postgraduate Diploma in Naval Management and Operations is designed to facilitate professional performance so students acquire and know the main novelties in this field, which will allow them to practice their profession with the highest quality and professionalism.







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*Our goal is to make you the best professional in your sector. And for this we have the best methodology and content"*



## General Objectives

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- ◆ Possess an overall vision of all stages of the life cycle of a naval project
- ◆ Possess and understand knowledge that provides the basis for developing research ideas
- ◆ Conceive and develop appropriate technical and economical solutions for naval projects
- ◆ Develop the conceptual design that meets shipowner requirements, cost estimates and risk assessments
- ◆ Work and negotiate with shipowners from the point of view of design, define ship missions, and assist shipowners in defining vessels according to the requirements
- ◆ Apply acquired knowledge and problem-solving skills in new environments related to Naval Engineering
- ◆ Solve complex problems and make responsible decisions
- ◆ Acquire the basis of scientific and technological knowledge applicable to Naval and Ocean Engineering and management methods
- ◆ Organize and lead multidisciplinary work groups in multilingual environments
- ◆ Acquire the fundamental knowledge of ship design, structure, machinery and on board installations
- ◆ Know the scope of detailed engineering of structure, outfitting, electricity, flag authorization and air conditioning
- ◆ Know how to organize and control the processes of construction, repair, transformation, maintenance and inspection of naval projects
- ◆ Delve into shipyard management, having a global and current vision of all shipyard departments
- ◆ Acquire the knowledge of ship operations throughout the entire flow line
- ◆ Possess detailed knowledge of the latest trends in innovation and development in the naval market, in all stages of the life cycle of projects, from the initial stages of design to operations and vessel or artifact scrapping



## Specific Objectives

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### Module 1. The Life Cycle of Naval Projects

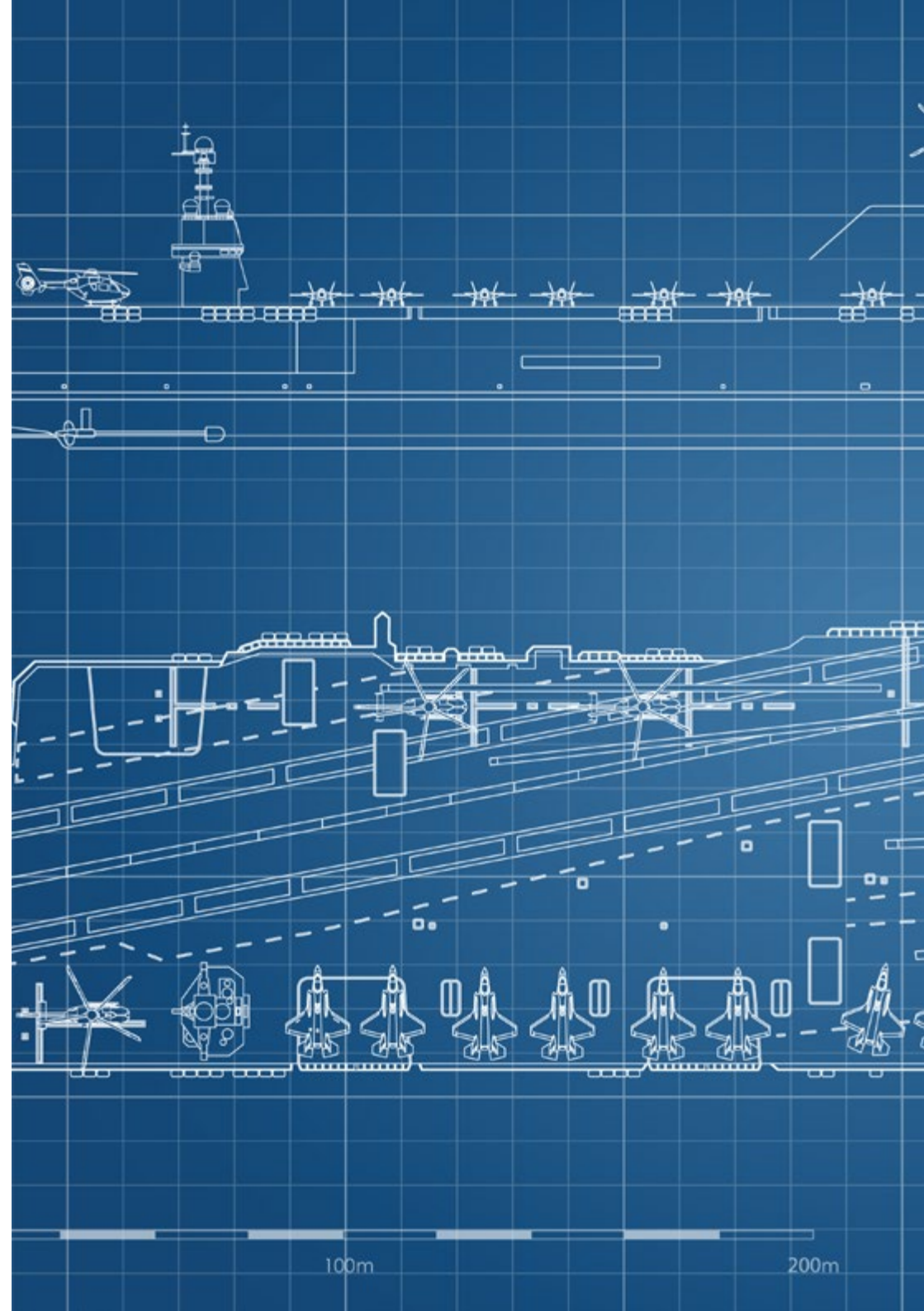
- ◆ Know the life cycle of naval projects
- ◆ Know the phases in the initial project definition stage, from market and feasibility studies, through bids and negotiations, to contract signing and contract follow up
- ◆ Develop conceptual engineering
- ◆ Possess fundamental design criteria for the basic structural engineering necessary to approve projects
- ◆ Know the most innovative trends in structural engineering
- ◆ Identify the most innovative basic engineering structures and areas of outfitting engineering
- ◆ Know the necessary documentation requirements generated to be approved by shipowners, classification societies and flag authorities
- ◆ Work with detail engineering using new methodologies and virtual reality
- ◆ Know the latest strategies and trends in shipyard management
- ◆ Achieve a vision of innovation and development in the life cycle of naval projects

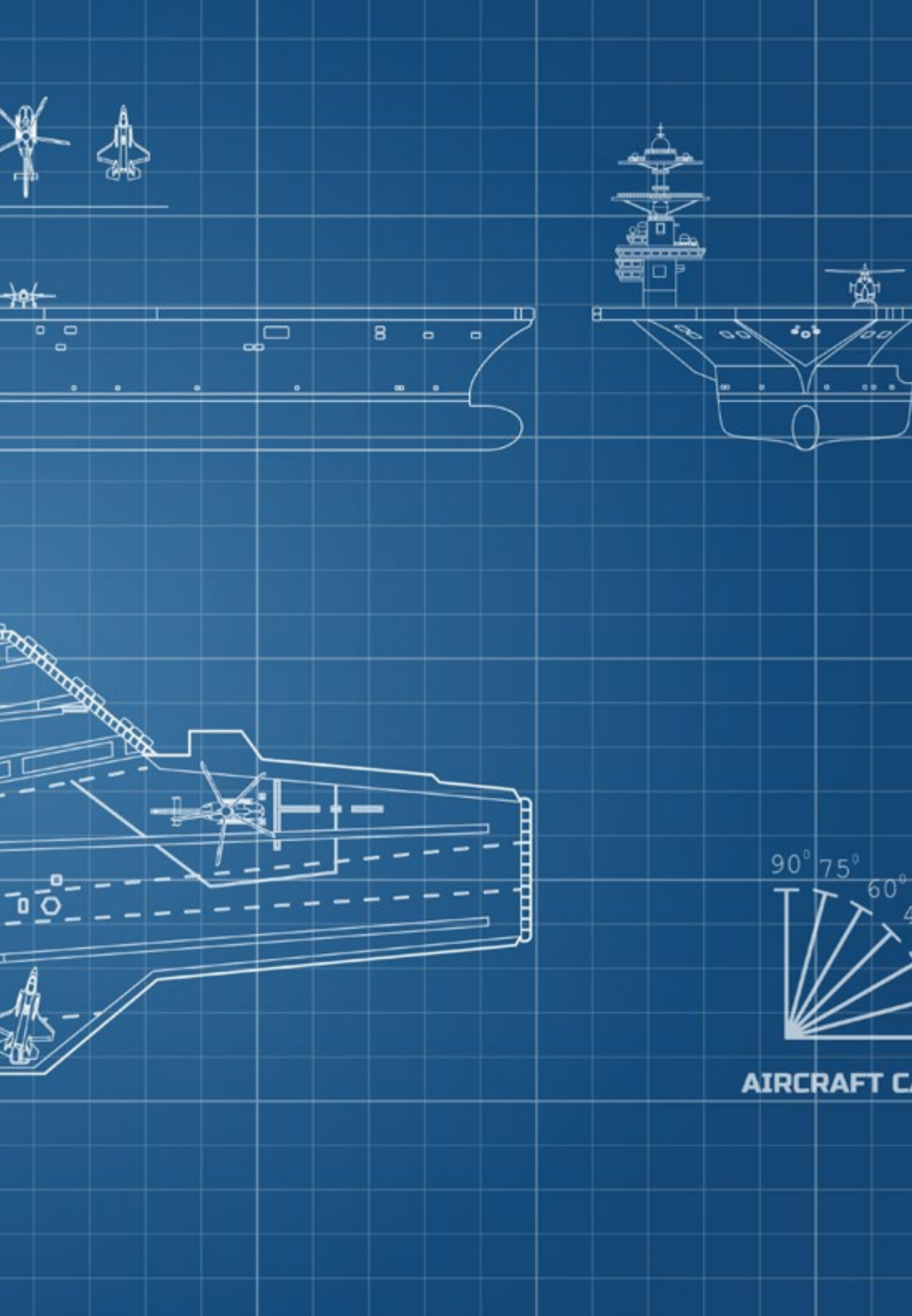
### Module 2. Negotiation and Feasibility

- ◆ Know the basics of project design
- ◆ Conduct market and feasibility studies
- ◆ Develop design alternatives that meet shipowner requirements
- ◆ Analyze and find the best alternative to suit shipowner requirements and to develop vessels
- ◆ Know how to budget both at CAPEX and OPEX levels
- ◆ Know the current financing methods for naval projects, aids and subsidies
- ◆ Study the most common types of contracts, payment milestones, penalties and types of cancellations
- ◆ Carry out contract follow up procedures
- ◆ Know the members and tasks on inspection teams
- ◆ Assess offers
- ◆ Learn negotiation techniques

### Module 3. Shipyard Management

- ◆ Know the fundamentals of strategy
- ◆ Study competitive environments and positions
- ◆ Investigate shipyard investments
- ◆ Optimize product strategies
- ◆ Understand fixed costs, variable costs and breaking even in the shipyard business
- ◆ Know how human resources functions in detail
- ◆ Elaborate development and training plans
- ◆ Know auxiliary industries as a competitive factor
- ◆ Understand the pros and cons of subcontracting
- ◆ Know the legal aspects that govern subcontractors
- ◆ Perform plant maintenance
- ◆ Know current maintenance organization and techniques
- ◆ Identify the role of financial management
- ◆ Study cash flows and financial planning
- ◆ Understand risk, return and cost of capital
- ◆ Learn budgeting techniques
- ◆ Understand the purpose, scope and summary requirements of ISO 9001, ISO 14001 and ISO 45001
- ◆ Apply continuous improvement tools
- ◆ Achieve material flow and plant layout improvements
- ◆ Achieve team efficiency
- ◆ Make improvements in the environment





#### Module 4. Naval Vessel Management and Operation

- ◆ Know the necessary permits for vessels to operate
- ◆ Know the crews, legislation and contracting options
- ◆ Understand how to manage ship maintenance and how to make maintenance plans
- ◆ Understand the different operations that ships perform depending on purpose and design
- ◆ Understand how to live together on board and what to do in case of emergency
- ◆ Analyze the world of piracy, naval boarding actions and possible collisions
- ◆ Become aware of the latest technologies in fleet management
- ◆ Understand and analyze ship profit and loss account
- ◆ Understand how ships can be sustainable

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*Join us and we will help you  
achieve professional excellence”*

03

# Course Management

In our university we have professionals specialized in each area of knowledge, who pour their work experience into our training programs.





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*Our university employs the best professionals in all areas who share their knowledge to help you”*

## Management



### Ms. López Castejón, María Ángeles

- Naval and Ocean Engineer School of Naval Engineering (ETSIN)
- 22 years of experience in Naval Engineering, Engineering and Shipyards
- Master's Degree in Occupational Risk Prevention Safety. MAPFRE
- PRL Auditor C.E.F
- Safety Coordinator
- C.A.P. University of Seville
- CCPC Co-Active Professional Certified Coach CTI
- Director of Marine Projects at SENER INGENIERIA Y SISTEMAS, S.A.
- Certified Professional Coach

## Professors

### Ms. De Prado García, Susana

- ♦ Degree in Business Administration
- ♦ 26 years of experience in Human Resources and Finance
- ♦ Master's Degree in Human Resources
- ♦ Proxy for Spain and Director of Human Resources, Spain and Portugal, Eisai Pharmaceuticals

### Mr. De Vicente Peño, Mario

- ♦ Naval and Ocean Engineer School of Naval Engineering (ETSIN)
- ♦ Master's Degree at UPM: Numerical Simulation in Engineering with ANSYS
- ♦ 16 years of experience in Naval Engineering and Classification Society
- ♦ Associate Professor of Structures and Shipbuilding at UPM, (ETSIN): Official Degree Courses: Finite Element Models in Ship Structures (1C), Master Frame Calculation (2C), MAERM Topics: Structural Design (1C), Structural Analysis of Offshore Platforms (2C)
- ♦ Director of Marine Projects at SENER INGENIERIA Y SISTEMAS, S.A.
- ♦ ETSIN Associate Professor



**Mr. Fiorentino, Norberto Eduardo**

- ◆ Naval Engineer Buenos Aires Technology Institute (ITBA)
- ◆ Master's Degree in Environmental Management Postgraduate Course in Ship Construction, Repair and Maintenance
- ◆ 26 years of experience in academic management and university teaching
- ◆ 13 years of experience in Naval Engineering
- ◆ 9 years of experience as a Technical Fleet Manager
- ◆ 6 years of experience as an Engine Section Chief in Shipyard Engineering
- ◆ Director of Marine Projects at SENER INGENIERIA Y SISTEMAS, S.A.
- ◆ Director of the Naval Engineering Department at ITBA

**Mr. Labella Arnanz, José Ignacio**

- ◆ Naval and Ocean Engineer School of Naval Engineering (ETSIN)
- ◆ Master's Degree in Financial Management. CEF
- ◆ Master's Degree in Senior Accounting CEF
- ◆ Master's Degree in Commercial Management and Marketing GESCO ESIC
- ◆ NACE CIP I and II
- ◆ General Manager at DEL MONTE SERVICIOS INDUSTRIALES, a company specialized in surface treatment, protection and insulation in the naval sector
- ◆ 24 years of experience in Naval and Industrial Engineering, Production and Maintenance
- ◆ 11 years of experience in General Management

**Mr. Martín Sánchez, José Luis**

- ◆ Naval and Ocean Engineer, School of Naval Engineering (ETSIN)
- ◆ Master's Degree in Integral Project Management
- ◆ 26 years of experience in Naval Engineering
- ◆ Director of Marine Projects at SENER INGENIERIA Y SISTEMAS, S.A.

**Mr. Sánchez Plaza, Carlos**

- ◆ Naval and Ocean Engineer School of Naval Engineering (ETSIN)
- ◆ 26 years of experience in Naval Engineering
- ◆ PADE, Senior Management Plan, IESE (University of Navarra)
- ◆ COO Deoleo
- ◆ Fishing and Merchant Fleet Management Specialist
- ◆ Member of the Bureau Veritas Naval Technical Committee

**Mr. Del Río González, Manuel**

- ◆ Researcher in the use of composites for warships and submarines Fellowship at Navantia
- ◆ Researcher on the analysis of the European cruise ship market and its environmental impact
- ◆ MBA EAE Business School
- ◆ Master's Degree in Naval Engineering Polytechnic University of Cartagena (UPCT)
- ◆ Degree in Naval Architecture and Marine Systems Engineering Polytechnic University of Cartagena (UPCT)
- ◆ Co-author of Urethane-Acrylate/Aramid Nanocomposites Based on Graphenic Materials: A Comparative Study of Their Mechanical Properties
- ◆ Co-author and speaker of the paper Cruise Port Centrality and Spatial Patterns of Cruise Ship Ping in the Mediterranean Sea, presented at the 2021 World Shipping Portugal Congress

**Mr. Muriente Núñez, Carlos**

- ◆ Naval and Ocean Engineer, ALTEN SPAIN
- ◆ Degree in Naval Architecture, Polytechnic University of Madrid
- ◆ Master's Degree in Naval and Ocean Engineering, Polytechnic University of Madrid
- ◆ Course Materials of the Future in Industry, Construction and Technology, Universidad Politécnica de Madrid; ISO 18436-4 Field Lubricant Analysis Category I certification, Grupo Technosis
- ◆ Ultrasound Category I Certification, Mobius Institute





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*An impressive teaching staff, made up of professionals from different areas of expertise, will be your professors during the program: A unique opportunity not to be missed”*

# 04

# Structure and Content

The contents have been structured and designed by the best professionals in Naval and Ocean Engineering, who have extensive experience and recognized prestige in the profession, and who are aware of the benefits that the latest educational technology can bring to higher education.





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*We have the most complete and up to date academic program in the market. We strive for excellence and for you to achieve it too"*

## Module 1. The Life Cycle of Naval Projects

- 1.1. The Life Cycle of Naval Projects
  - 1.1.1. The Lifecycle
  - 1.1.2. Stages
- 1.2. Negotiation and Feasibility
  - 1.2.1. Viability Analysis: Generating Alternatives
  - 1.2.2. Budgets
  - 1.2.3. Negotiation
  - 1.2.4. Contracts and Execution
- 1.3. Conceptual Engineering
  - 1.3.1. Conceptual Design
  - 1.3.2. General Provisions
  - 1.3.3. Technical Specifications
  - 1.3.4. Relevant Conceptual Project Information
- 1.4. Basic Engineering Structures
  - 1.4.1. Structural Systems
  - 1.4.2. Calculation Methodologies
  - 1.4.3. Beam Vessel Theory
- 1.5. Basic Machinery and Electrical Engineering
  - 1.5.1. Propulsion
  - 1.5.2. Services
  - 1.5.3. Electricity
- 1.6. Development Engineering
  - 1.6.1. Construction Strategy and Manufacturing Constraints
  - 1.6.2. 3D Modeling and Operations
- 1.7. Production and Maintenance
  - 1.7.1. Construction Strategies
  - 1.7.2. Budget and Planning
  - 1.7.3. Production Organization
  - 1.7.4. Outsourcing
  - 1.7.5. Purchasing and Logistics Management
  - 1.7.6. Quality Control
  - 1.7.7. Monitoring and Control
  - 1.7.8. Delivery and Commissioning
- 1.8. Shipyard Management
  - 1.8.1. Strategy
  - 1.8.2. Sizing and Investments
  - 1.8.3. Human Resources and Training
  - 1.8.4. Auxiliary Industry
  - 1.8.5. Plant Maintenance and Reliability
  - 1.8.6. Financial Management
  - 1.8.7. Quality
  - 1.8.8. The Environment
  - 1.8.9. Occupational Hazard Prevention
  - 1.8.10. Continuous Improvement and Excellence
- 1.9. Operation
  - 1.9.1. Departure from the Shipyard
  - 1.9.2. Start of Operations
  - 1.9.3. Ports
  - 1.9.4. Scrapping
- 1.10. Innovation and development
  - 1.10.1. R&D&I in New Technologies
  - 1.10.2. R&D&I Engineering
  - 1.10.3. R&D&I in Energy

## Module 2. Negotiation and Feasibility

- 2.1. Market Research
  - 2.1.1. Market Research Startup Conditions
  - 2.1.2. Key Points in Market Research
- 2.2. Feasibility Study
  - 2.2.1. Time Calculations (Cargo Management, Ports and Routes)
  - 2.2.2. Capacity Calculations (Quantities to Be Transported)
  - 2.2.3. Cost Calculation
  - 2.2.4. Service Life
- 2.3. Decision Matrix
  - 2.3.1. Decision Matrix Design
  - 2.3.2. Decision Making
- 2.4. Budget
  - 2.4.1. Budget Types
  - 2.4.2. CAPEX
  - 2.4.3. OPEX
  - 2.4.4. Project Financing: Grants and Subsidies
- 2.5. Relationship between Shipowners and Technical/Shipyard Offices
  - 2.5.1. Shipowner Technical Office
  - 2.5.2. Shipowner Shipyard
- 2.6. Requesting and Assessing Bids
  - 2.6.1. Information Required for Bids
  - 2.6.2. Homogenization of Bids
- 2.7. Negotiation Techniques
  - 2.7.1. Concept of Negotiation
  - 2.7.2. Negotiation Types
  - 2.7.3. Negotiation Phases
- 2.8. Classification Society and Flags
  - 2.8.1. Classification Societies
  - 2.8.2. Flags

- 2.9. Construction Contracts
  - 2.9.1. Types of Contract
  - 2.9.2. Payment Milestones
  - 2.9.3. Penalties
  - 2.9.4. Contract Cancellation
- 2.10. Contract Monitoring
  - 2.10.1. Inspection Teams
  - 2.10.2. Cost Control
  - 2.10.3. Risk Analysis and Monitoring
  - 2.10.4. Variations and Extras
  - 2.10.5. Warranties

## Module 3. Shipyard Management

- 3.1. Strategy
  - 3.1.1. Strategy Fundamentals
  - 3.1.2. Competitive Environment
  - 3.1.3. Competitive Positioning
  - 3.1.4. Criteria and Methods for Strategic Decisions
- 3.2. Sizing and Investments
  - 3.2.1. Product Optimization and Strategy
  - 3.2.2. Fixed, Variable and Breaking Even Costs
  - 3.2.3. Investment Analysis
- 3.3. Human Resources and Training
  - 3.3.1. Human Resources Strategies
  - 3.3.2. Outsourcing and Turnkey
  - 3.3.3. Selection
  - 3.3.4. Compensation and Benefits
  - 3.3.5. Well Being: Well Being
  - 3.3.6. Personnel Management. Talent Management. Talent Matrix
  - 3.3.7. Development and Training Plans: Internal and External Master's Degrees and Schools

- 3.4. Auxiliary Industry
  - 3.4.1. The Ancillary Industry as a Competitive Factor
  - 3.4.2. Pros and Cons of Outsourcing
  - 3.4.3. Strategic Implications
  - 3.4.4. Legal Aspects
- 3.5. Plant Maintenance and Reliability
  - 3.5.1. Maintenance Organization
  - 3.5.2. Current Maintenance Techniques
- 3.6. Financial Management
  - 3.6.1. Financial Management
  - 3.6.2. Cash Flow and Financial Planning
  - 3.6.3. The Time Value of Money: Interest Rates
  - 3.6.4. Risk and Return: The Cost of Capital
  - 3.6.5. Budgeting Techniques
  - 3.6.6. Leverage and Capital Structure
  - 3.6.7. Shipbuilding Aid
- 3.7. Quality
  - 3.7.1. ISO 9001
  - 3.7.2. Quality Policy
  - 3.7.3. Quality Objectives
  - 3.7.4. RACI Matrix
  - 3.7.5. Integrating ISO Management Systems
- 3.8. Environment
  - 3.8.1. ISO 14001
  - 3.8.2. Environmental Management
- 3.9. Risk Prevention
  - 3.9.1. ISO 45001 Improving Occupational Health and Safety Performance
  - 3.9.2. Occupational Health and Safety Law
  - 3.9.3. Occupational Health and Safety Services
  - 3.9.4. Strategies for Safety and Health at the Workplace
  - 3.9.5. OSHAS

- 3.10. Continuous Improvement and Excellence
  - 3.10.1. Continuous Improvement Tools
  - 3.10.2. Improvements in Material Flow and Plant Layout
  - 3.10.3. Equipment Efficiency
  - 3.10.4. Environmental Improvements
  - 3.10.5. Other Keys to Improvement

## Module 4. Naval Vessel Management and Operation

- 4.1. Basic Vessel Documentation
  - 4.1.1. Vessel Documentation and Permits
  - 4.1.2. Crew Documentation and Permits
  - 4.1.3. Cargo Documentation and Permits
  - 4.1.4. Ship Insurance
- 4.2. Maintenance
  - 4.2.1. Obligations, Certifications and Flags
  - 4.2.2. Maintenance Plans
    - 4.2.2.1. Preventative Maintenance
    - 4.2.2.2. Predictive Maintenance
    - 4.2.2.3. Corrective Maintenance
    - 4.2.2.4. Maintenance Plan Monitoring
  - 4.2.3. Digital Twins
  - 4.2.4. Quadrennial or Quinquennial Major Repairs
- 4.3. Port Management
  - 4.3.1. Shipping Agencies or Consignees
  - 4.3.2. Ship Victualling
  - 4.3.3. Permits and Authorizations Vessel Operations
- 4.4. Staff Management
  - 4.4.1. Crew: Key Positions
  - 4.4.2. Travel and Boarding Documentation
  - 4.4.3. Personnel Selection
  - 4.4.4. Labor Conditions and Legislation
  - 4.4.5. Crew Transfer





- 4.5. Ship or Vessel Operations
  - 4.5.1. Civilian Vessels
    - 4.5.1.1. Transport Vessels
      - 4.5.1.1.1. Dry Cargo
      - 4.5.1.1.2. Frozen Cargo
      - 4.5.1.1.3. Fuel Transportation and Vetting
    - 4.5.1.2. Fishing Vessels
    - 4.5.1.3. Support Vessels, Artifacts and Platforms
    - 4.5.1.4. Passenger Vessels
  - 4.5.2. Military Vessels
  - 4.5.3. Maritime Navigation
    - 4.5.3.1. Navigation and Tracking Equipment
- 4.6. Daily Life on Board, Coexistence
  - 4.6.1. Daily Life on Board
  - 4.6.2. Medical Emergencies and Health on Board
  - 4.6.3. Occupational Risk Prevention on Board
- 4.7. Port and Navigation Vessel Safety and Integrity
  - 4.7.1. Piracy and Stowaways
  - 4.7.2. Collisions and Naval Boarding Action
- 4.8. New Technologies in Ship Management and Operations
  - 4.8.1. Enterprise Resource Planning (ERP) and Corporate Tools
  - 4.8.2. Other Management Tools
- 4.9. Vessel Operating Income Statement
  - 4.9.1. Main KPI Indicators in Vessel Management
  - 4.9.2. Vessel P&L
- 4.10. Sustainability on Ships
  - 4.10.1. Recycling
  - 4.10.2. Sustainability
  - 4.10.3. Sustainable Fuels

05

# Methodology

This academic program offers students a different way of learning. Our methodology uses a cyclical learning approach: **Relearning**.

This teaching system is used, for example, in the most prestigious medical schools in the world, and major publications such as the **New England Journal of Medicine** have considered it to be one of the most effective.





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*Discover Relearning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"*

### Case Study to contextualize all content

Our program offers a revolutionary approach to developing skills and knowledge. Our goal is to strengthen skills in a changing, competitive, and highly demanding environment.

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*At TECH, you will experience a learning methodology that is shaking the foundations of traditional universities around the world”*



*You will have access to a learning system based on repetition, with natural and progressive teaching throughout the entire syllabus.*



*The student will learn to solve complex situations in real business environments through collaborative activities and real cases.*

### **A learning method that is different and innovative**

This TECH program is an intensive educational program, created from scratch, which presents the most demanding challenges and decisions in this field, both nationally and internationally. This methodology promotes personal and professional growth, representing a significant step towards success. The case method, a technique that lays the foundation for this content, ensures that the most current economic, social and professional reality is taken into account.

**“** *Our program prepares you to face new challenges in uncertain environments and achieve success in your career”*

The case method is the most widely used learning system in the best faculties in the world. The case method was developed in 1912 so that law students would not only learn the law based on theoretical content. It consisted of presenting students with real-life, complex situations for them to make informed decisions and value judgments on how to resolve them. In 1924, Harvard adopted it as a standard teaching method.

What should a professional do in a given situation? This is the question that you are presented with in the case method, an action-oriented learning method. Throughout the program, the studies will be presented with multiple real cases. They will have to combine all their knowledge and research, and argue and defend their ideas and decisions.

## Relearning Methodology

TECH effectively combines the Case Study methodology with a 100% online learning system based on repetition, which combines 8 different teaching elements in each lesson.

We enhance the Case Study with the best 100% online teaching method: Relearning.

*In 2019, we obtained the best learning results of all online universities in the world.*

At TECH, you will learn using a cutting-edge methodology designed to train the executives of the future. This method, at the forefront of international teaching, is called Relearning.

Our university is the only one in the world authorized to employ this successful method. In 2019, we managed to improve our students' overall satisfaction levels (teaching quality, quality of materials, course structure, objectives...) based on the best online university indicators.



In our program, learning is not a linear process, but rather a spiral (learn, unlearn, forget, and re-learn). Therefore, we combine each of these elements concentrically.

This methodology has trained more than 650,000 university graduates with unprecedented success in fields as diverse as biochemistry, genetics, surgery, international law, management skills, sports science, philosophy, law, engineering, journalism, history, and financial markets and instruments. All this in a highly demanding environment, where the students have a strong socio-economic profile and an average age of 43.5 years.

*Relearning will allow you to learn with less effort and better performance, involving you more in your training, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation for success.*

From the latest scientific evidence in the field of neuroscience, not only do we know how to organize information, ideas, images and memories, but we know that the place and context where we have learned something is fundamental for us to be able to remember it and store it in the hippocampus, to retain it in our long-term memory.

In this way, and in what is called neurocognitive context-dependent e-learning, the different elements in our program are connected to the context where the individual carries out their professional activity.



This program offers the best educational material, prepared with professionals in mind:



### Study Material

All teaching material is produced by the specialists who teach the course, specifically for the course, so that the teaching content is highly specific and precise.

These contents are then applied to the audiovisual format, to create the TECH online working method. All this, with the latest techniques that offer high quality pieces in each and every one of the materials that are made available to the student.



### Classes

There is scientific evidence suggesting that observing third-party experts can be useful.

Learning from an Expert strengthens knowledge and memory, and generates confidence in future difficult decisions.



### Practising Skills and Abilities

They will carry out activities to develop specific skills and abilities in each subject area. Exercises and activities to acquire and develop the skills and abilities that a specialist needs to develop in the context of the globalization that we are experiencing.



### Additional Reading

Recent articles, consensus documents and international guidelines, among others. In TECH's virtual library, students will have access to everything they need to complete their course.







#### Case Studies

Students will complete a selection of the best case studies chosen specifically for this program. Cases that are presented, analyzed, and supervised by the best specialists in the world.



#### Interactive Summaries

The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



#### Testing & Retesting

We periodically evaluate and re-evaluate students' knowledge throughout the program, through assessment and self-assessment activities and exercises, so that they can see how they are achieving their goals.



06

# Certificate

The Postgraduate Diploma in Naval Management and Operations guarantees students, in addition to the most rigorous and up to date education, access to a Postgraduate Diploma issued by TECH Global University.





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*Successfully complete this program and receive your university qualification without having to travel or fill out laborious paperwork”*

This program will allow you to obtain your **Postgraduate Diploma in Naval Management and Operations** endorsed by **TECH Global University**, the world's largest online university.

**TECH Global University** is an official European University publicly recognized by the Government of Andorra ([official bulletin](#)). Andorra is part of the European Higher Education Area (EHEA) since 2003. The EHEA is an initiative promoted by the European Union that aims to organize the international training framework and harmonize the higher education systems of the member countries of this space. The project promotes common values, the implementation of collaborative tools and strengthening its quality assurance mechanisms to enhance collaboration and mobility among students, researchers and academics.

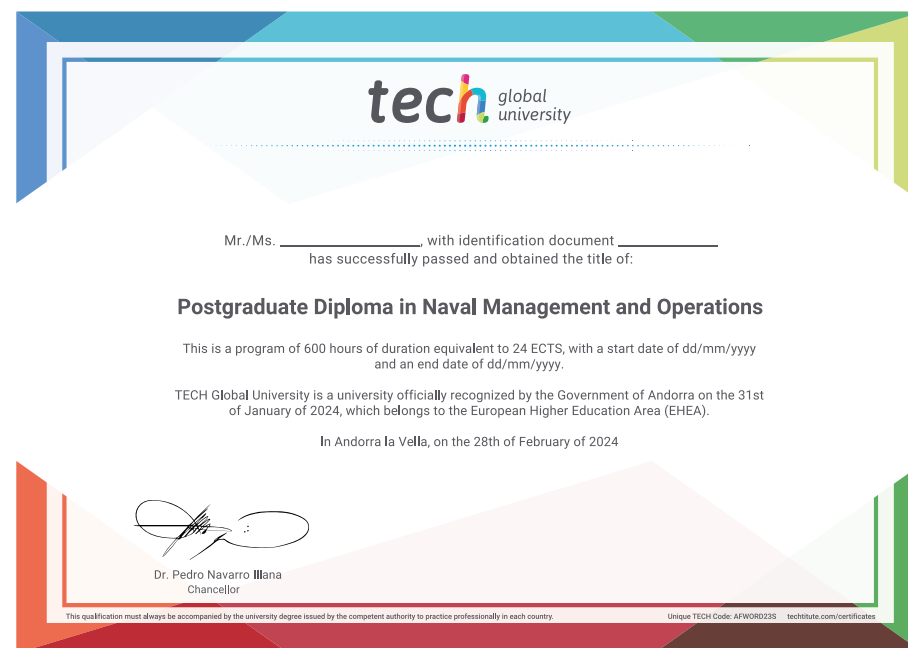
This **TECH Global University** title is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: **Postgraduate Diploma in Naval Management and Operations**

Modality: **online**

Duration: **6 months**

Accreditation: **24 ECTS**



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## Postgraduate Diploma Naval Management and Operations

- » Modality: online
- » Duration: 6 months
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- » Credits: 24 ECTS
- » Schedule: at your own pace
- » Exams: online

# Postgraduate Diploma Naval Management and Operations