



# Postgraduate Certificate

Shipyard Management

» Modality: online

» Duration: 6 weeks

» Certificate: TECH Global University

» Credits: 6 ECTS

» Schedule: at your own pace

» Exams: online

Website: www.techtitute.com/us/engineering/postgraduate-certificate/shipyard-matnagement

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## tech 06 | Introduction

The Postgraduate Certificate in Shipyard Management is a program of the highest academic level that aims to specialize professionals in the field, enabling them to carry out their work with the highest quality and safety requirements. It is a comprehensive specialization program, imparted by professionals with years of experience, and which includes the latest advances on the subject.

Throughout the program, key aspects of this process will be covered, such as the definition of mission, vision, values and strategy, as well as the optimization of investments and plant analysis and size. The program will also analyze matters related to human resources management and the complementation of the company's own capacities through adequate subcontracting and auxiliary industry policies. Further, the program will address maintenance techniques as a key aspect to obtain maximum production capacity and availability.

Another of the relevant elements to be studied is financial management, a very important point given the capital intensity required by a plant of these characteristics. Moreover, the program includes an exclusive topic on Human Resources departments, presenting strategies, outsourcing and selection. It will cover compensation and benefits, wellness and *well-being*, people and talent management. Finally, students will learn about development and training plans.

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

This **Postgraduate Certificate in Shipyard Management** contains the most complete and up-to-date 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 the self-assessment process can be carried out to improve learning
- Special emphasis on innovative methodologies in Shipyard Management
- 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 Certificate will place Naval Engineering professionals at the forefront of the latest developments in the sector"

## Introduction | 07 tech



This program is the best investment you can make in selecting a refresher program in Shipyard Management. We offer you quality and free access to content"

The teaching staff includes professionals in naval engineering, who bring their experience to this specialization 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.

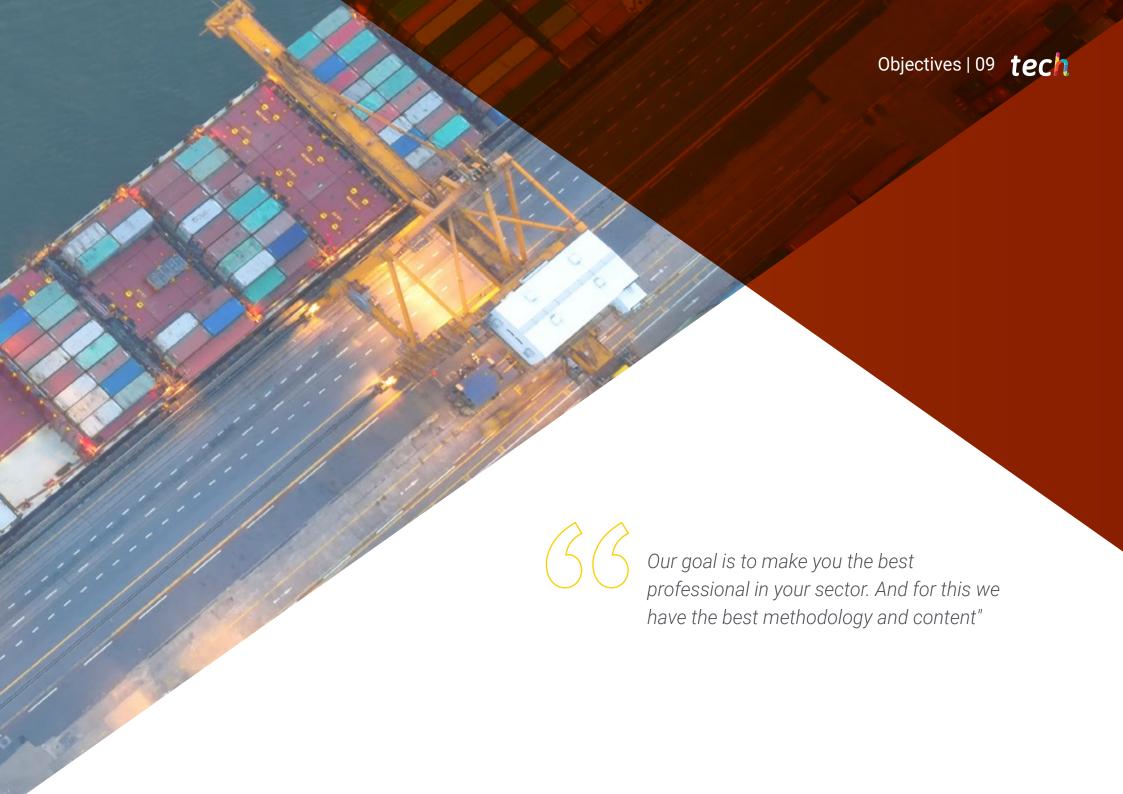
This program is designed around Problem-Based Learning, whereby the professional must try to solve the different professional practice situations that arise throughout the program. To that end, professionals will be assisted by an innovative, interactive video system created by renowned and extensively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

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

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







## tech 10 | Objectives



## **General Objectives**

- 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 ships 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 onboard 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**

- 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







## tech 14 | Course Management

## 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. 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. 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 in Materials of the Future in Industry, Construction and Technology,
   Polytechnic University of Madrid; ISO 18436-4 Field Lubricant Analysis Category
   I certification, Grupo Techgnosis
- Ultrasound Category I Certification, Mobius Institute

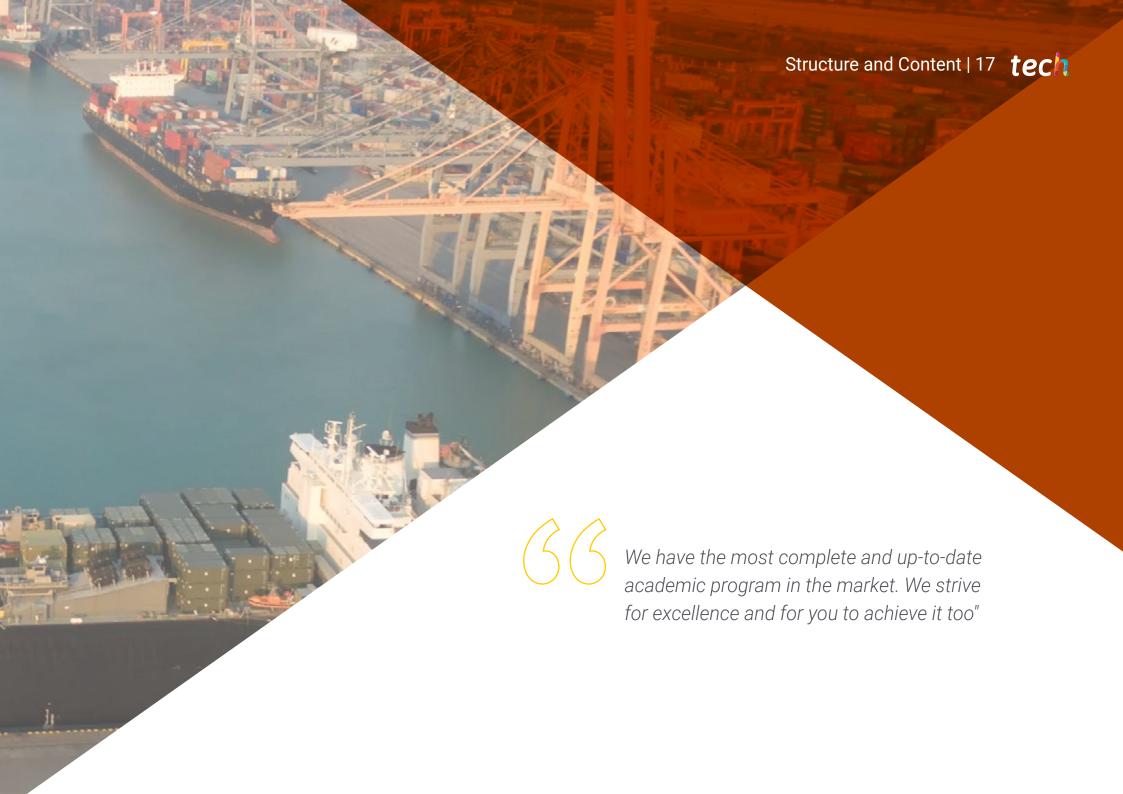
#### Mr. Del Río González, Manuel

- 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



A comprehensive and multidisciplinary program that will enable you to excel in your career with the latest advances in the field of naval engineering"





## tech 18 | Structure and Content

#### Module 1. Shipyard Management

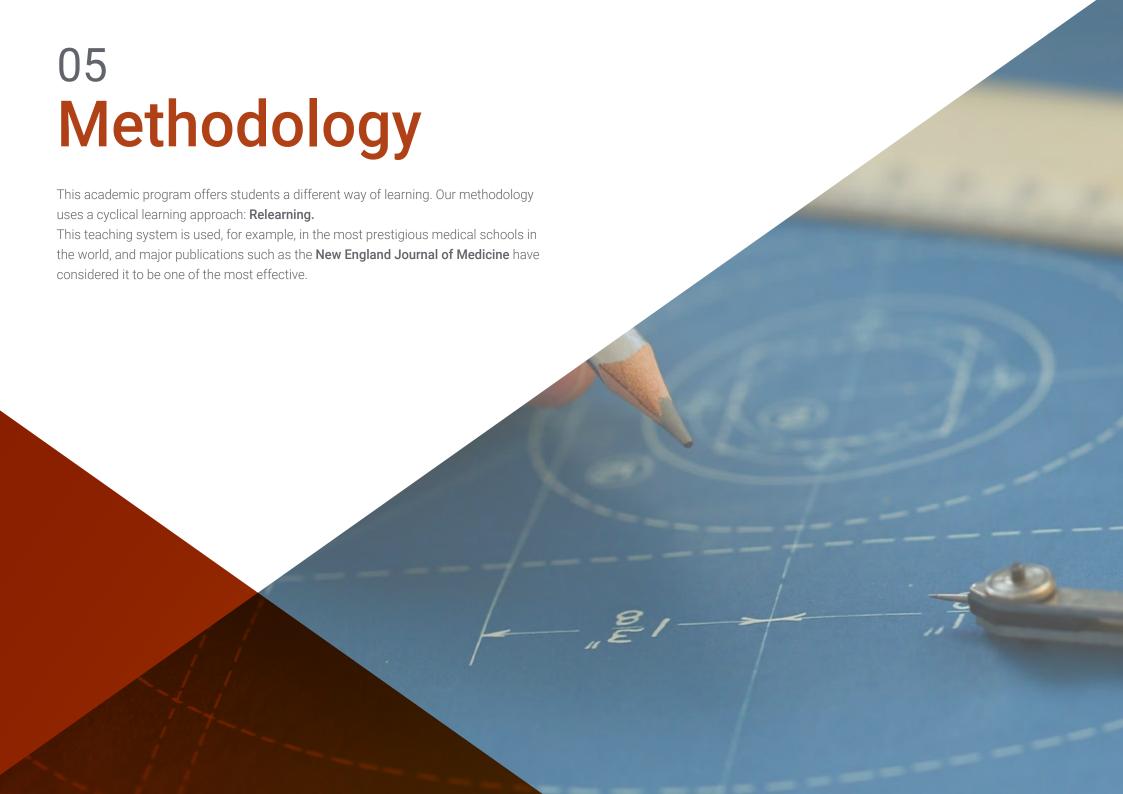
- 1.1. Strategy
  - 1.1.1. Strategy Fundamentals
  - 1.1.2. Competitive Environment
  - 1.1.3. Competitive Positioning
  - 1.1.4. Criteria and Methods for Strategic Decisions
- 1.2. Sizing and Investments
  - 1.2.1. Product Optimization and Strategy
  - 1.2.2. Fixed, Variable and Breaking Even Costs
  - 1.2.3. Investment Analysis
- 1.3. Human Resources and Training
  - 1.3.1. Human Resources Strategies
  - 1.3.2. Outsourcing and Turnkey
  - 1.3.3. Selection
  - 1.3.4. Compensation and Benefits
  - 1.3.5. Well-Being: Well-Being
  - 1.3.6. Personnel management. Talent Management. Talent Matrix
  - 1.3.7. Development and Training Plans: Internal and External Master's Degrees and Schools
- 1.4. Auxiliary Industry
  - 1.4.1. The Ancillary Industry as a Competitive Factor
  - 1.4.2. Pros and Cons of Outsourcing
  - 1.4.3. Strategic Implications
  - 1.4.4. Legal Aspects
- 1.5. Plant Maintenance and Reliability
  - 1.5.1. Maintenance Organization
  - 1.5.2. Current Maintenance Techniques





## Structure and Content | 19 tech

- 1.6. Financial Management
  - 1.6.1. Financial Management
  - 1.6.2. Cash Flow and Financial Planning
  - 1.6.3. The Time Value of Money: Interest Rates
  - 1.6.4. Risk and Return: The Cost of Capital
  - 1.6.5. Budgeting Techniques
  - 1.6.6. Leverage and Capital Structure
  - 1.6.7. Shipbuilding Aid
- 1.7. Quality
  - 1.7.1. ISO 9001
  - 1.7.2. Quality Policy
  - 1.7.3. Quality Objectives
  - 1.7.4. RACI Matrix
  - 1.7.5. Integrating ISO Management Systems
- 1.8. Environment
  - 1.8.1. ISO 14001
  - 1.8.2. Environmental Management
- 1.9. Risk Prevention
  - 1.9.1. ISO 45001 Improving Occupational Health and Safety Performance
  - 1.9.2. Occupational Health and Safety Law
  - 1.9.3. Occupational Health and Safety Services
  - 1.9.4. Strategies for Safety and Health in the Workplace
  - 1.9.5. OSHAS
- 1.10. Continuous Improvement and Excellence
  - 1.10.1. Continuous Improvement Tools
  - 1.10.2. Improvements in Material Flow and Plant Layout
  - 1.10.3. Equipment Efficiency
  - 1.10.4. Environmental Improvements
  - 1.10.5. Other Keys to Improvement





## tech 22 | Methodology

## 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.



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.

## tech 24 | Methodology

## 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.



## Methodology | 25 tech

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.



## Methodology | 27 tech





#### **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.





20%





## tech 30 | Certificate

This program will allow you to obtain your **Postgraduate Certificate in Shipyard Management** 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 Certificate in Shipyard Management

Modality: online

Duration: 6 weeks

Accreditation: 6 ECTS



Mr./Ms. \_\_\_\_\_, with identification document \_\_\_\_\_ has successfully passed and obtained the title of:

#### Postgraduate Certificate in Shipyard Management

This is a program of 180 hours of duration equivalent to 6 ECTS, with a start date of dd/mm/yyyy and an end date of dd/mm/yyyy.

TECH Global University is a university officially recognized by the Government of Andorra on the 31st of January of 2024, which belongs to the European Higher Education Area (EHEA).

In Andorra la Vella, on the 28th of February of 2024



<sup>\*</sup>Apostille Convention. In the event that the student wishes to have their paper diploma issued with an apostille, TECH Global University will make the necessary arrangements to obtain it, at an additional cost.

tech global university Postgraduate Certificate Shipyard Management » Modality: online » Duration: 6 weeks » Certificate: TECH Global University » Credits: 6 ECTS

» Schedule: at your own pace

» Exams: online

