

# Postgraduate Certificate

## Scope and Schedule Management in Construction Project Management





## Postgraduate Certificate Scope and Schedule Management in Construction Project Management

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

Website: [www.techtute.com/us/engineering/postgraduate-certificate/scope-schedule-management-construction-project-management](http://www.techtute.com/us/engineering/postgraduate-certificate/scope-schedule-management-construction-project-management)

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# 01

# Introduction

One of the most critical elements in managing and working on construction projects is scope and schedule management. Therefore, it is crucial for engineering professionals to acquire specific training in this area as a means to ensure the viability and safety of the project. This knowledge will become a great asset for the professional when it comes to entering a labor market that increasingly demands more professionals specialized in the field.



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*Learn how to perform successful schedule management and improve your performance as an engineer with this complete training that TECH offers you"*

In this Postgraduate Certificate, special emphasis will be placed on the project manager's performance in key aspects of project development such as scope management and schedule management. In this sense, we will analyze the importance of controlling and managing the scope of the project in compliance with all the stages established by the main international entities recognized in project management.

In addition, an exhaustive analysis of another key factor in project management, the schedule, will be carried out. The process of creating and controlling the schedule, as well as its subsequent monitoring will be studied in depth. In the same way, important terms such as baseline, critical path, acceleration plan or recovery plan will be discussed in depth.

After finishing this Postgraduate Certificate, the professional will be able to control the management of the schedule in all its phases, acquiring the necessary skills to make relevant decisions for the development of the project in a timely manner.

All this, throughout a 100% online training that provides the student with the ease of being able to take it wherever and whenever they want. The only thing that students need is a device with internet access and they will be able to access a universe of knowledge that will be the main basis for these engineers to position themselves in a sector that is increasingly demanded by companies in various sectors.

This **Postgraduate Certificate in Scope and Schedule Management in Construction Project Management** contains the most complete and up to date educational program on the market. The most important features of the program include:

- ◆ Practical cases presented by experts in Construction Project Management
- ◆ The graphic, schematic, and eminently practical contents with which they are created, provide scientific and practical information on the disciplines that are essential for professional practice
- ◆ Practical exercises where the self assessment process can be carried out to improve learning
- ◆ Special emphasis on innovative methodologies
- ◆ 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



*You will have access to not only the best didactic material, but also the best teaching staff on the national and international scene"*

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*With this program you will have the necessary knowledge as a contract manager to interact with the rest of the departments on the construction site and be able to carry out exhaustive control of their work"*

*The skills you will acquire will enable you to manage the schedule of construction projects and position yourself as a prestigious professional.*

*Don't drop your daily commitments to study this course. With this Postgraduate Certificate you are the one who decides the hours you dedicate to your studies.*

The program's teaching staff includes professionals from the sector who contribute their work 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 training programmed to train 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 during the academic year. For this purpose, the professional will be assisted by an innovative interactive video system created by renowned and experienced engineers with vast experience.



# 02

# Objectives

Through this training, engineering professionals will acquire the necessary knowledge to work on large construction projects on a national and international level, taking into consideration one of the most important aspects within this field: schedule and time management. All this, with the assurance and efficiency of a Postgraduate Certificate created to motivate professionals in Project Management. It provides a global perspective that includes everything from conceptual, basic and detail engineering, to the final testing of the installation, training of personnel and delivery of the final result to the client, always on time.





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*If your goal is to grow in your profession, there is no doubt that you will be able to achieve it with this Postgraduate Certificate”*



## General Objectives

- ◆ Carry out an exhaustive analysis of EPC projects
- ◆ Manage the different stages of EPC projects
- ◆ Manage the contracts of large scale projects
- ◆ Perform an in depth breakdown of guarantees, disputes and insurance in the construction industry
- ◆ Master project management on a global basis
- ◆ Carry out cost, time and resources analysis
- ◆ Gain solid knowledge of the integration phases of a project
- ◆ Manage a project with a global, interdepartmental vision
- ◆ Be able to analyze the earned value of projects

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*Don't miss this great opportunity and specialize in project management and schedule management with this Postgraduate Certificate”*





## Specific Objectives

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- ◆ Capacity to control the scope of a project
- ◆ Analysis of requirements management
- ◆ In depth knowledge of scope management
- ◆ Ability to control the schedule
- ◆ Analysis of the schedule
- ◆ In depth knowledge to elaborate a schedule
- ◆ Capacity to know the critical route
- ◆ In depth knowledge and analysis of a recovery plan
- ◆ In depth knowledge and analysis of an acceleration plan

03

# Course Management

This Postgraduate Certificate in Scope and Schedule Management in Construction Project Management is taught by highly prestigious professionals in this field, who bring their many years of experience to the training, as well as the knowledge they have acquired from research in the field. All to provide the engineer with a high level program, which will enable them to practice in national and international environments with greater guarantees of success.





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*Study with the first hand support of the best professionals in the sector and achieve success in your profession”*

## International Guest Director

With an extensive professional career of more than 20 years focused on project management and operational transformations, Pierre-Yves Galopin is a prominent international expert in the field of Construction Engineering. He has spent most of his career in reference entities in countries such as France, Finland and Chile. In this way, he has held important positions as General Technical Director, where he has provided holistic advice to projects in the bidding, construction and operation phase on a global scale.

As such, he has worked directly in more than 40 operations, in addition to having negotiated more than 200 contracts in various sectors such as Heavy Industry, Mining, Oil and Gas. His work philosophy is based on achieving operational excellence, which has driven him to remain at the forefront of areas such as external cost maintenance, as well as the different phases of studies in construction. Thanks to this, it is considered a reference in the optimization of large investment projects through the disruptive methodology of Value Engineering.

In his constant effort to promote progress in the construction sector, he has developed multiple specialized articles on his findings and research. In fact, he is one of the people in charge of preparing press releases in the Communication Department of Boston Consulting Group. As such, he has contributed to increase the knowledge of citizens in aspects such as the applications of Artificial Intelligence in commercial activities, the management of Greenfield or Brownfield investment projects and even the most recent trends in construction materials. In this regard, he highly values networking networks and is an active participant on LinkedIn, where he takes the opportunity to make key connections, share industry knowledge and stay up-to-date on industry opportunities.



## Dr. Galopin, Pierre-Yves

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- ♦ Associate Director and Partner at Boston Consulting Group, Boston, United States
- ♦ Director of Development Projects at Sembcorp Industries, Santiago de Chile
- ♦ Co-Founder and Advisor at Tellus Chile
- ♦ Operations Manager at OSD Pipelines, Chile
- ♦ EPCM Engineer at Hatch, Chile
- ♦ Area Manager and Civil Engineer at Bouygues, Finland
- ♦ Civil Engineer at Degremont, Paris
- ♦ Management Consultant at Partners in Performance, Latin America

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*Thanks to TECH, you will be able to learn with the best professionals in the world”*

## Management



### Mr. Ruiz Cid, Martin Joaquín

- ◆ Technical Director EPC Project Group - EPC Project Manager Leader at Soltec Energías
- ◆ Industrial Technical Engineer specializing in Mechanics/Structures from the Polytechnic University of Cartagena
- ◆ Industrial Engineer in Electricity from the Polytechnic University of Cartagena
- ◆ Master's Degree in Power Electronics and Adaptive Control
- ◆ MBA in Strategic Company Management from UNED (National Distance Learning University)
- ◆ Master's Degree in Renewable Energies and the Environment
- ◆ Professional Project Manager Course
- ◆ EPC Turnkey Project Management Course
- ◆ Industrial Instrumentation Course



# 04

## Structure and Content

The syllabus has been built based on the intensive and high impact training requirements of this Postgraduate Certificate. Through a complete course, which incorporates all the key aspects for carrying out the successful management of construction projects, the student will develop their theoretical and practical knowledge, achieving professional and personal growth that will allow them to intervene in this field of work with the confidence of an expert. You will achieve this through top notch content designed by the best professionals in the industry.





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*You will have access to high impact content specifically designed to train you in all aspects of schedule management”*

## Module 1. Construction Project Management: Scope and Schedule Management

- 1.1. Scope Control
  - 1.1.1. Scope of the Project
  - 1.1.2. Base Line of the Scope of the Project
  - 1.1.3. The Importance of the Control Account
- 1.2. Requirement Management
  - 1.2.1. Requirement Management
  - 1.2.2. Categories
  - 1.2.3. Management Process
- 1.3. Scope Management
  - 1.3.1. Scope Management Planning
  - 1.3.2. Gather Requirements
  - 1.3.3. Particularities of the Scope
- 1.4. Study of the Scope
  - 1.4.1. Creating the WBS
  - 1.4.2. Validation of the Scope
  - 1.4.3. Scope Control
- 1.5. Schedule Control
  - 1.5.1. Project Schedule
  - 1.5.2. Base Line of the Schedule
  - 1.5.3. Analysis of the Critical Route
- 1.6. Creating the Schedule
  - 1.6.1. Gantt Chart
  - 1.6.2. Predecessor and Successor Activities
  - 1.6.3. Restrictions Between Activities





- 1.7. Schedule Management
  - 1.7.1. Planning of Schedule Management
  - 1.7.2. Activities Description
  - 1.7.3. Activities Sequencing
- 1.8. Study and Analysis of the Schedule
  - 1.8.1. Estimation of the Duration of Activities
  - 1.8.2. Development of the Schedule
  - 1.8.3. Schedule Control
- 1.9. Acceleration Plan in a Construction Project
  - 1.9.1. Acceleration Plan Analysis
  - 1.9.2. Timeline
  - 1.9.3. Resources
- 1.10. Recovery Plan in a Construction Project
  - 1.10.1. Recovery Plan Analysis
  - 1.10.2. Schedule
  - 1.10.3. Resources

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*A key and decisive training  
that will help you to achieve  
your professional goals”*

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

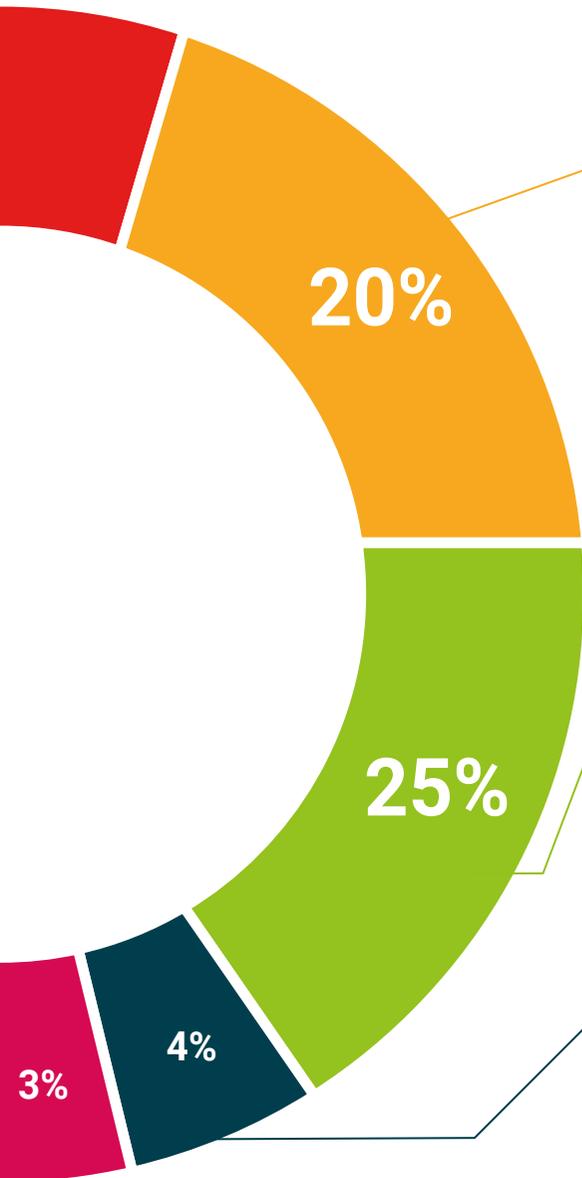
They will carry out activities to develop specific skills and abilities in each subject area. Exercises and activities to acquire and develop the skills and abilities that a specialist needs to develop in the context of the globalization that we are experiencing.



### 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 Certificate in Scope and Schedule Management in Construction Project Management guarantees, in addition to the most rigorous and up to date training, access to a Postgraduate Certificate issued by TECH Global University.



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*Successfully complete this training program  
and receive your university certificate  
without travel or laborious paperwork"*

This program will allow you to obtain your **Postgraduate Certificate in Scope and Schedule Management in Construction Project 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 Scope and Schedule Management in Construction Project Management**

Modality: **online**

Duration: **6 weeks**

Accreditation: **6 ECTS**



\*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.

future  
health confidence people  
education information tutors  
guarantee accreditation teaching  
institutions technology learning  
community commitment  
personalized service innovation  
knowledge presentation  
development languages  
classroom



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