

Postgraduate Certificate Control Installations





Postgraduate Certificate Control Installations

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

Website: www.techtute.com/us/engineering/postgraduate-certificate/control-installations

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01

Introduction

The integration of telecommunications and information and communication technologies is one of the great advances in the installations used in the construction of buildings. Their implementation is a verifiable reality that contributes to the control of a large part of the systems commonly used.



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Building professionals must continue their education during their professional career to adapt to new developments in the field”

The Postgraduate Certificate in Control Installations addresses the complete range of issues involved in this field, both in the residential and tertiary sectors. Its study has a clear advantage over other programs that focus on specific blocks, which prevents the student from knowing the interrelationship with other areas included in the multidisciplinary field of energy efficiency and sustainability in the construction of buildings.

The contents of this course cover all the elements that are part of the control systems and have clear and concise information. As such, in this program, the student will apply the technologies that are currently in use today together with those that will be present in the medium term.

Through this learning and from an eminently practical approach, the student will be able to understand the scope of application of each technology, its advantages and disadvantages, and how to deal with the installation and configuration of each one of them. Likewise, the terminology and tools to design, configure and install control systems will be analyzed, providing the student with the necessary tools to do so.

Additionally, as this is a 100% online Postgraduate Certificate, the students are not constrained by fixed timetables or the need to move to another physical location, but can access the contents at any time of the day, balancing their professional or personal life with their academic life.

This **Postgraduate Certificate in Control Installations** contains the most complete and up-to-date educational program on the market. The most important features include:

- ◆ The development of practical cases presented by experts in Control Installations.
- ◆ 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
- ◆ Its special emphasis on innovative methodologies in Control Installations
- ◆ Theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection work
- ◆ Content that is accessible from any fixed or portable device with an Internet connection



This program is the best option you can find to specialize in Control Installations"

“Do not miss the opportunity to take with us this Postgraduate Certificate in Control Installations. It's the perfect opportunity to advance your career”

Its teaching staff includes professionals belonging to the field of construction, who bring to this program the experience of their work, as well as recognized specialists from leading companies 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 throughout the program. For this purpose, the professional will be assisted by an innovative interactive video system created by renowned experts in Control Installations with extensive experience.

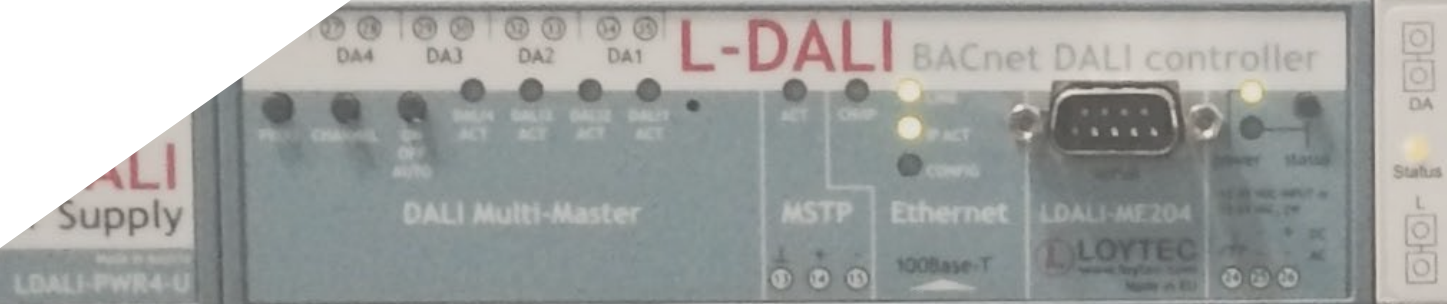
This program comes with the best teaching material, providing you with a contextual approach that will facilitate your learning.

This 100% online program will allow you to combine your studies with your professional work while increasing your knowledge in this field.



02 Objectives

The Postgraduate Certificate in Control Installations is oriented to facilitate the performance of the professional in this field to acquire and know the main developments in this area of building construction.





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Our goal is to help you to be the best in your profession and for this we count on the quality of our teachers and subjects”



General Objective

- ◆ Delve into and analyze the different control systems installed in buildings, the differences between them, the applicability criteria in each case and the energy savings provided



Take the step to get up to date on the latest developments in Control Installations”





Specific Objectives

- ◆ Analyze the different installations, technologies and control systems applied to energy saving in buildings
- ◆ Differentiate between the different systems to be implemented, distinguishing the characteristics in each specific case
- ◆ Delve into how control installations bring energy savings to buildings by optimizing energy resources
- ◆ Master the principles of configuration of control systems used in buildings

03

Course Management

In our university we have professionals specialized in each area of study, who pour their expertise into our specialization courses.





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

Management



Mr. Nieto-Sandoval González- Nicolás, David

- ♦ Industrial Technical Engineer by the E.U.P. of Málaga
- ♦ Industrial Engineer from E.T.S.I.I.
- ♦ Master's Degree in Integral Management of Quality, Environment and Health and Safety at Work from the University of the Balearic Islands
- ♦ He has been working for more than 11 years, both for companies and independently, for clients in the private agri-food industrial sector and the institutional sector, as a consultant in engineering, project manager, energy saving and circularity in organizations
- ♦ Professor certified by the EOI in the areas of industry, entrepreneurship, human resources, energy, new technologies and technological innovation
- ♦ Trainer for the European INDUCE project
- ♦ Trainer at institutions such as COGITI or COIIM

Professors

Ms. Peña Serrano, Ana Belén

- ♦ Technical Engineer in Topography from the Polytechnic University of Madrid
- ♦ Master's Degree in Renewable Energies from San Pablo CEU University
- ♦ Postgraduate Certificate in Geological Cartography from Universidad Nacional de Educación a Distancia (National University of Distance Education)
- ♦ Postgraduate Certificate in Building Energy Certification from Fundación Laboral de la Construcción
- ♦ Her experience covers several sectors from working on site, to managing people in human resources
- ♦ She collaborates in different scientific communication projects, directing the dissemination in different media in the field of energy
- ♦ Member of the work management team for the Master's Degree in Environmental and Energy Management in Organizations at the International University of La Rioja

Mr. González Cano, José Luis

- ♦ Degree in Optics and Optometry from the Complutense University of Madrid
- ♦ Lighting Designer He collaborates with companies in the lighting sector in consulting, training, lighting technology projects and implementation of ISO 9001:2015 quality systems (internal auditor)
- ♦ He is a teacher for Vocational Training in electronic systems, telematics (CISCO certified instructor), radio communications, IoT
- ♦ Member of the Professional Association of Lighting Designers (Technical Consultant) and member of the Spanish Lighting Committee, who participates in working groups on LED technology



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*Specialize in the world's
leading private Spanish-
speaking online university”*

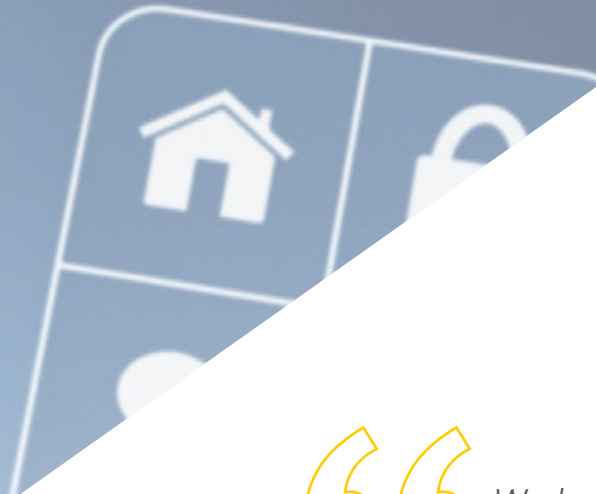
04

Structure and Content

The structure of the contents has been designed by the best professionals in the field of sustainability and energy-saving in building construction, with extensive experience and recognized prestige in the profession.



ME CONTROL



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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"

DE

Module 1. Control Installations

- 1.1. Home Automation
 - 1.1.1. State-of-the-Art
 - 1.1.2. Standards and Regulations
 - 1.1.3. Equipment
 - 1.1.4. Services
 - 1.1.5. Networks
- 1.2. Inmotics
 - 1.2.1. Characteristics and Regulations
 - 1.2.2. Building Automation and Control Technologies and Systems
 - 1.2.3. Technical Building Management for Energy Efficiency
- 1.3. Telemanagement
 - 1.3.1. System Determination
 - 1.3.2. Key Elements
 - 1.3.3. Monitoring Software
- 1.4. Smart Home
 - 1.4.1. Features
 - 1.4.2. Equipment
- 1.5. The Internet of Things IoT
 - 1.5.1. Technological Monitoring
 - 1.5.2. Standards
 - 1.5.3. Equipment
 - 1.5.4. Services
 - 1.5.5. Networks
- 1.6. Telecommunications Installations
 - 1.6.1. Key Infrastructure
 - 1.6.2. Television
 - 1.6.3. Radio
 - 1.6.4. Telephony



- 1.7. KNX, DALI Protocols
 - 1.7.1. Standardization
 - 1.7.2. Applications
 - 1.7.3. Equipment
 - 1.7.4. Design and Configuration
- 1.8. IP Networks Wi-Fi
 - 1.8.1. Standards
 - 1.8.2. Features
 - 1.8.3. Design and Configuration
- 1.9. Bluetooth
 - 1.9.1. Standards
 - 1.9.2. Design and Configuration
 - 1.9.3. Features
- 1.10. Future Technologies
 - 1.10.1. Zigbee
 - 1.10.2. Programming and Configuration. Python
 - 1.10.3. Big Data



This program will allow you to advance in your career comfortably"



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.





“

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.

“

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.



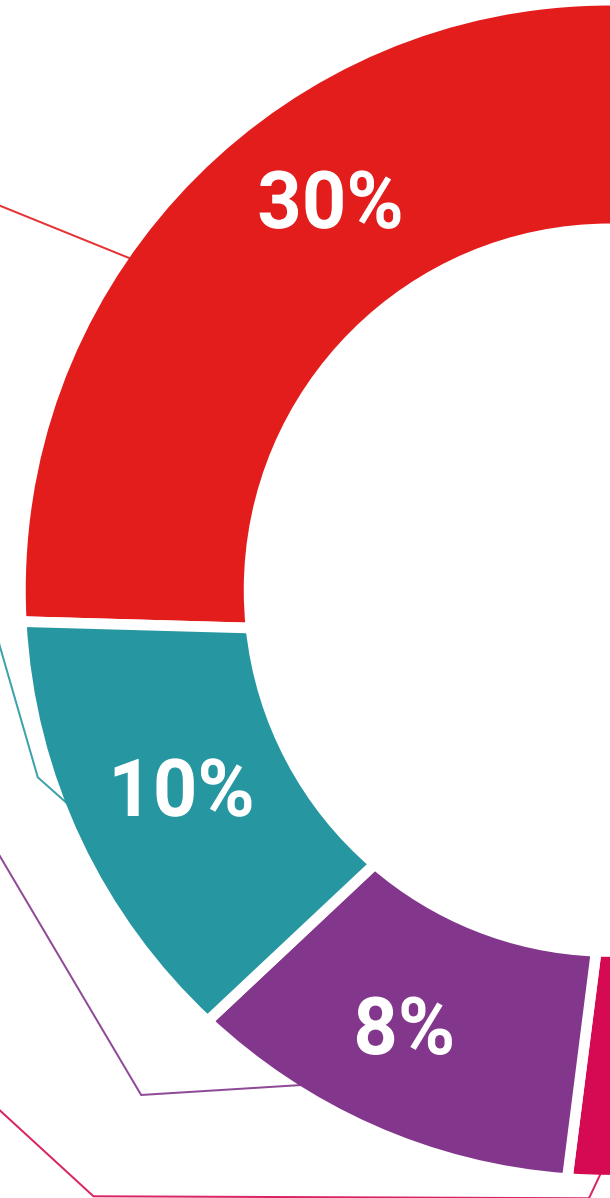
Practising Skills and Abilities

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 Control Installations guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Technological University.



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

This **Postgraduate Certificate in Control Installations** contains the most complete and up-to-date program on the market.

After the student has passed the assessments, they will receive their corresponding Postgraduate Certificate issued by **TECH Technological University** via tracked delivery*.

The diploma issued by **TECH Technological University** will reflect the qualification obtained in the Postgraduate Certificate, and meets the requirements commonly demanded by labor exchanges, competitive examinations and professional career evaluation committees.

Title: **Postgraduate Certificate in Control Installations**

Official N° of Hours: **150 h.**



*Apostille Convention. In the event that the student wishes to have their paper diploma issued with an apostille, TECH EDUCATION 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 present
development languages
virtual classroom



Postgraduate Certificate Control Installations

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Postgraduate Certificate Control Installations

