# Postgraduate Certificate
## Textile Product Process in Apparel

**tech** global university

## Postgraduate Certificate
Textile Product
Process in Apparel

» 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/textile-product-process-apparel**

# Index

# 01
# Introduction

The textile industry is one of the largest and most important industries worldwide. In that sense, automation and robotics are making the production process faster, more efficient and sustainable. So, engineers skilled in the textile production process in apparel can contribute to the development of more advanced and efficient technologies for the textile industry, which is why there is a growing demand for highly qualified professionals. Precisely for this reason, TECH has created a complete degree in which the professional will delve into the methodologies of the manufacturing process in different genres. This is a program taught in a 100% online format through the most effective Relearning method.

"

*Thanks to this 100% online TECH Postgraduate Certificate, you will be able to face challenges, establish limitations and present proposals in the most efficient and proactive way"*

The textile industry is one of the largest and most relevant in the world, and is being transformed by technological advances such as automation and robotics, which is enabling a faster, more efficient and sustainable production process. For this reason, there is a great demand for engineers trained in the textile production process in apparel, who can contribute to the development of more advanced and efficient technologies for the textile industry. In addition, consumers are increasingly looking for sustainable and environmentally friendly textile products, so engineers skilled in the textile production process in apparel can develop more sustainable production processes and more efficient technologies in terms of resource use and waste reduction.

It is in this context that this complete academic degree is created, in which the engineering graduate will take an extensive tour of the functioning and responsibilities of departments such as design, marketing and finance, and even production and operations. Additionally, the student will delve into the criteria and innovations in the wrapping and packaging of garments.

This way, you will have access to a program taught in a completely online modality that allows you to set your own schedule and without the need to travel to a teaching center. Also, the degree is taught under the effective Relearning method, which combines real cases, the resolution of complex situations by simulation, the study of clinical cases and a repetition-based learning. The graduate will integrate knowledge in a natural and efficient process.

This **Postgraduate Certificate in Textile Product Process in Apparel** contains the most complete and up-to-date program on the market. The most important features include:

♦ Development of case studies presented by experts in Textile Engineering

♦ The graphic, schematic, and practical contents with which they are created, provide practical information on the disciplines that are essential for professional practice

♦ Practical exercises where the process of self-assessment can be used to improve learning

♦ Its 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

*A 100% online degree with which you will obtain the broadest and most comprehensive knowledge about the criteria and innovations in the wrapping and packaging of garments"*

*Thanks to TECH, you will know the distinction, design and methods in labeling operations and certifications and will differentiate yourself from other professionals in your sector"*

The program's teaching staff includes professionals from sector who contribute their work experience to this educational program, as well as renowned specialists from leading societies and prestigious universities.

Its 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 an immersion education programmed to learn in real situations.

The design of this program focuses on Problem-Based Learning, by means of which the professional must try to solve the different professional practice situations that are presented throughout the academic course. For this purpose, the student will be assisted by an innovative interactive video system created by renowned experts.

*You will deepen in the process of manufacturing specific or luxury garments with this exclusive TECH program.*

*You will be able to download all the content to your preferred device and consult it even without an internet connection, whenever and wherever it suits you best.*
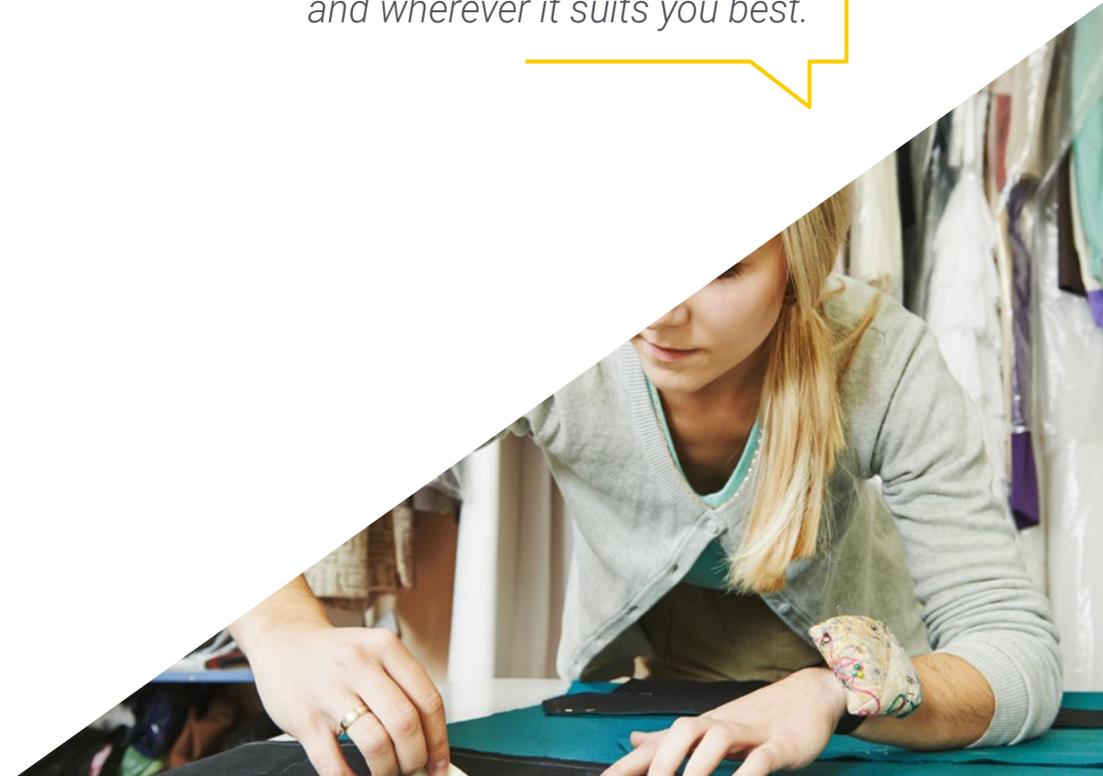
# 02
# Objectives

During the 180 teaching hours of this Postgraduate Certificate, the engineer will be able to keep up with the advances that have taken place in the Textile Product Process in Apparel. For this purpose, the syllabus has been prepared by a specialized teaching team, which will show in a dynamic and visual way, the new types of textile unions, their technological advances and the materials in the garment making process.

*Do you want to master the manufacture of contemporary fashion garments? Get into this field with a multitude of audiovisual materials integrated in a degree that adapts to you"*

## General Objectives

- Classify the different types of fibers according to their nature
- Determine the main physical characteristics of textiles
- Acquire technical skills to recognize the quality of textiles
- Establish scientific and technical criteria for the selection of suitable materials for the development of textile articles in the fashion sector
- Identify and apply the sources of inspiration and the most innovative trends in the textile area
- Generate a transversal vision of textile structures with a multisectorial vision of its applications

## Specific Objectives

- Analyze the methodology within the garment industry itself
- Establish and specify criteria for the organization and distribution of the garment industry
- Compile the existing fabric specifications, openwork fabric and knitted fabric in the garment industry
- Develop trends and innovations in sewing technology and methodology

*Meet your goals, analyze the logistics within the sector and get into the process of the Textile Product in Apparel with this program"*

# 03

# Course Management

Aware of the importance of having a team of experienced professionals in the area to guide the student, TECH has carefully selected the faculty for this program. These professionals are highly qualified and have extensive experience in the field of Textile Engineering, which ensures that engineers have access to the most innovative and relevant content. In addition, the teaching method used, Relearning, is highly efficient and effective.

"

*You will obtain a solid knowledge of the preparation and finishing machinery in clothing manufacturing from the most experienced professionals"*

## Management

### Dr. González López, Laura

- Textile Innovation Production Manager at Waste Prevention SL
- Pattern and garment maker oriented to the automotive sector
- Researcher in the Tectex group
- Lecturer in undergraduate and postgraduate university studies
- D. in Textile and Paper Engineering from the Polytechnic University of Catalonia
- Graduate in Political Science and Administration from the Autonomous University of Barcelona
- PROFESSIONAL MASTER'S DEGREE in Textile and Paper Engineering

## Professors

### Dr. Galí Pérez, Susan

- ◆ Responsible of management and production of fashion and luxury garments collections at Yolancris
- ◆ Responsible of management and production of fashion, accessories and children's wear collections at Mandragora
- ◆ Designer and dressmaker of lingerie and corsetry
- ◆ Handcrafted and tailor-made dressmaker
- ◆ Designer and producer of stage costumes for theater companies
- ◆ Lecturer in courses related to Fashion
- ◆ Superior Technician in Industrial and Fashion Pattern Making
- ◆ Postgraduate in Advanced and Creative Patternmaking

### Dr. Ruiz Caballero, Ainhoa

- ◆ Commercial team leader of technical textile products for extreme sports at McTrek Retail GmbH Aachen
- ◆ Technician specialized in textile products Hightech for high mountain at McTrek Outdoor Sports GmbH Aachen
- ◆ Degree in Political Science and Law from the Polytechnic University of Catalonia
- ◆ Master's Degree in European Union by the European Institute of Bilbao

# Structure and Content

This complete degree program offered by TECH is an innovative didactic experience based on the Relearning method, which consists of the constant reiteration of the most important concepts throughout the syllabus in order to achieve a more natural and comprehensive integration of knowledge. This allows graduates to acquire specific skills and competencies in an efficient and dynamic way, without the need to invest hours in the tedious task of memorization. In addition, the program is taught in a completely online mode and offers the most complete theoretical and practical content available on the market, allowing the student to delve deeper into the properties of the fabrics.

" *Access now to the most complete and up-to-date curriculum in today's academic scene. Only at TECH"*

## Module 1. Manufacture of textile products for fashion application

1.1.  The garment industry
    1.1.1.  Structure of the garment industry
    1.1.2.  Classification of sectors within the garment industry
    1.1.3.  Products and industrial organization in the garment industry. Types

1.2.  The manufacturing process. Types of seams
    1.2.1.  Classification of seams according to typology
    1.2.2.  Conventional seams with traditional machinery
    1.2.3.  New types of textile joints. Technological Advances

1.3.  Conventional sewing. Machinery and needle types
    1.3.1.  Classification of sewing machinery according to applications and processes
    1.3.2.  Needle typology. Classification, definition and uses according type of garments
    1.3.3.  Preparation and finishing machinery in garment making

1.4.  Materials in the manufacturing process
    1.4.1.  Stitches and sewing symbologies in the textile manufacturing process
    1.4.2.  List of phases and time calculations
    1.4.3.  Process replicability. Quality control principles

1.5.  Organization and management of the cutting and sewing industry
    1.5.1.  Management principles within the industry
    1.5.2.  Design, marketing and financial department. Functionality and tasks
    1.5.3.  Production and operations departments. Functionality and tasks

1.6.  Finishing in fashion garments
    1.6.1.  Cleaning and ironing operations. Typology
    1.6.2.  Distinction, design and methods in labeling operations and certifications
    1.6.3.  Packaging. Criteria and innovations in the packaging and wrapping of garments
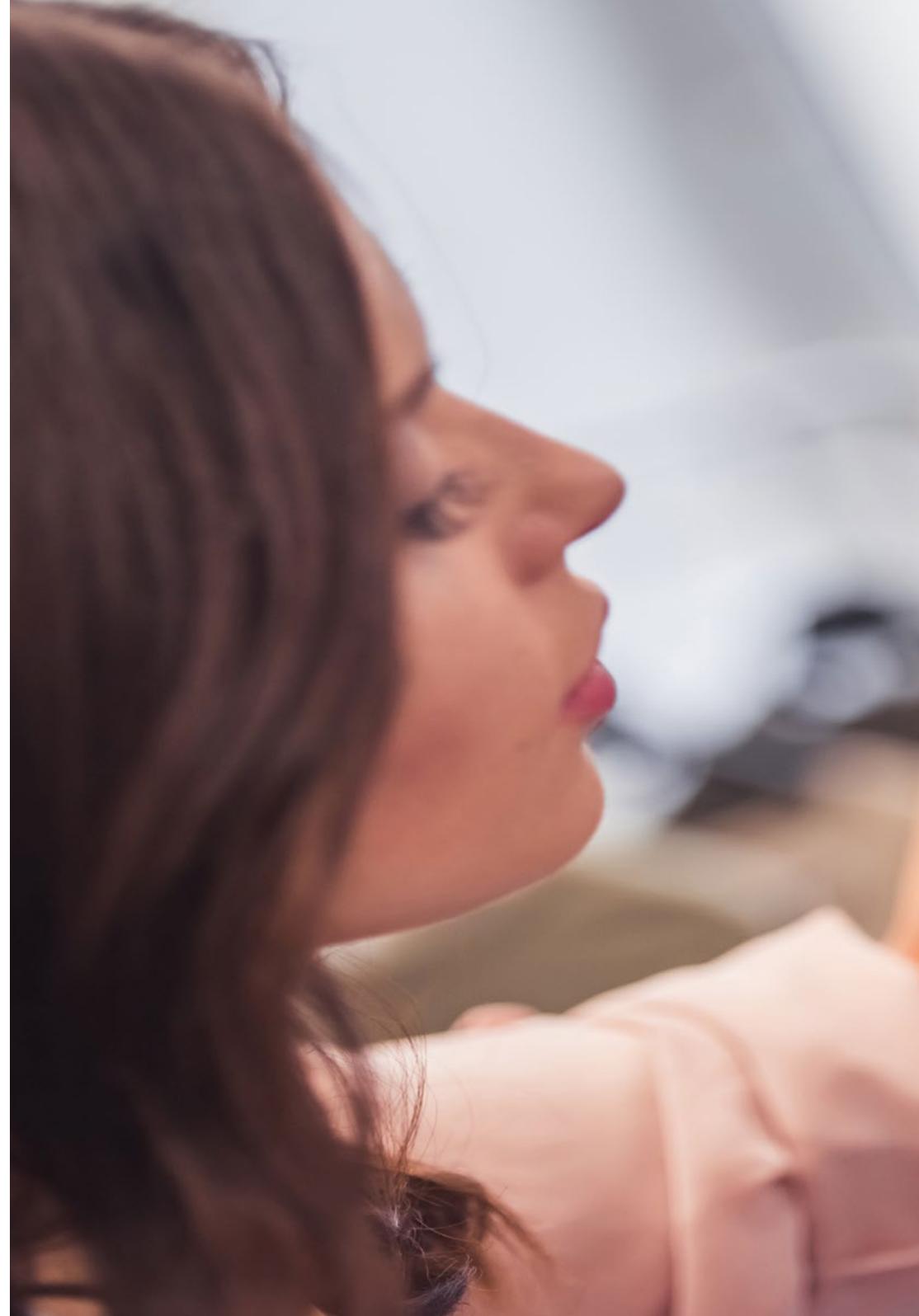
1.7.   Manufacture of conventional fashion garments

    1.7.1.   Methodology of the knitwear manufacturing process

    1.7.2.   Methodology of the manufacturing process in openwork fabrics

    1.7.3.   Methodology of the sewing process in other specific fabrics

        1.7.3.1. Non-woven fabrics, quilted fabrics, linings, printed fabrics

1.8.   Manufacture of specific or luxury garments

    1.8.1.   Methodology of the knitwear manufacturing process

    1.8.2.   Methodology of the manufacturing process in openwork fabrics

    1.8.3.   Methodology of the sewing process in other specific fabrics

        1.8.3.1. Non-woven fabrics, quilted fabrics, linings, printed fabrics

1.9.   Manufacture of knitted garments

    1.9.1.   Methodology of the knitwear manufacturing process

    1.9.2.   Methodology of the manufacturing process in openwork fabrics

    1.9.3.   Methodology of the sewing process in other specific fabrics

        1.9.3.1. Non woven fabrics, quilting, lining, printing

1.10.   Fast fashion vs. slow fashion, Sector transformation. Paradigm shift in the garment industry

    1.10.1.   Organization of the garment industry focused on Fast Fashion

    1.10.2.   Organization of the garment industry according to Slow Fashion

    1.10.3.   Industry adaptation to the new paradigm. Challenges, limitations and proposals

*A syllabus designed by industry experts that will boost your knowledge in favor of your professional growth"*

# 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 prepare 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.

01 learning from evidence

02 relearning from evidence

03 testing

04 learning from an expert

05 neurocognitive context dependent learning

06 Von-Restorff effect

07 case based learning through storytelling

08 competencies testing (retesting)

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 prepared 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 education, 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:**
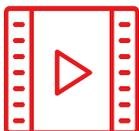
### Study Material

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.

**30%**

**10%**

**8%**

**20%**

**25%**

**4%**

**3%**
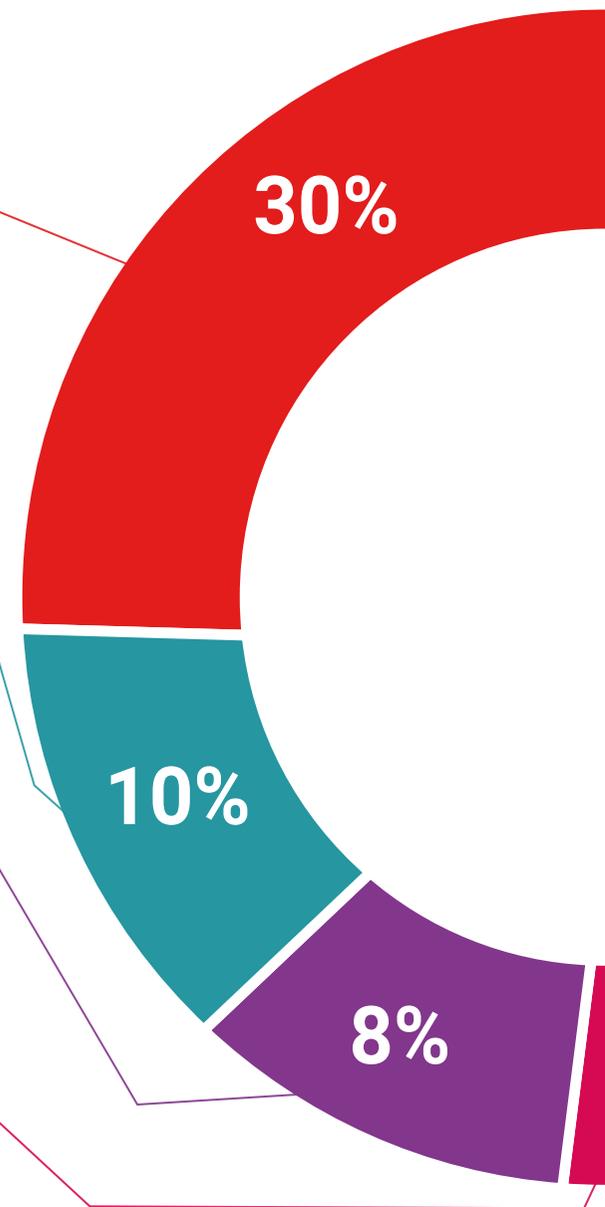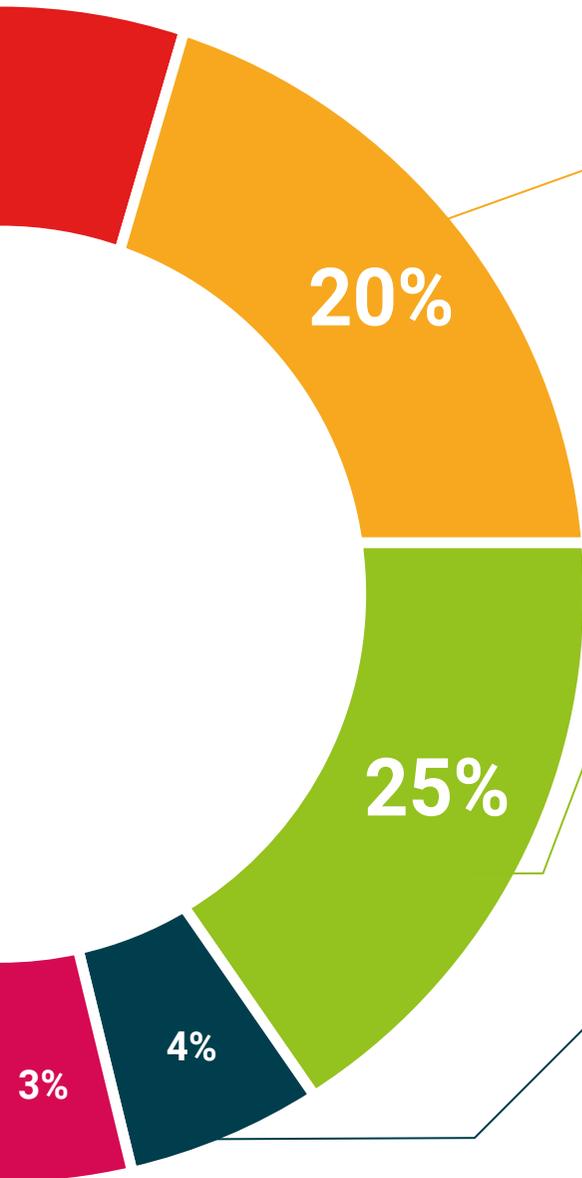
### Case Studies

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 Textile Product Process in Apparel guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Global University.

*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 Certificate in Textile Product Process in Apparel** 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 Textile Product Process in Apparel**

Modality: **online**

Duration: **6 weeks**

Accreditation: **6 ECTS**

**tech** global university

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

**Postgraduate Certificate in Textile Product Process in Apparel**

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

Dr. Pedro Navarro Illana
Rector

This qualification must always be accompanied by the university degree issued by the competent authority to practice professionally in each country.          Unique TECH Code: AFWORD23S     techtitute.com/certificates

*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
Textile Product
Process in Apparel

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

# Postgraduate Certificate
## Textile Product Process in Apparel

tech global university