

# Postgraduate Certificate 3D Modeling with ZBrush





## Postgraduate Certificate 3D Modeling with ZBrush

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

Website: [www.techtitute.com/in/information-technology/postgraduate-certificate/3d-modeling-zbrush](http://www.techtitute.com/in/information-technology/postgraduate-certificate/3d-modeling-zbrush)

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Certificate

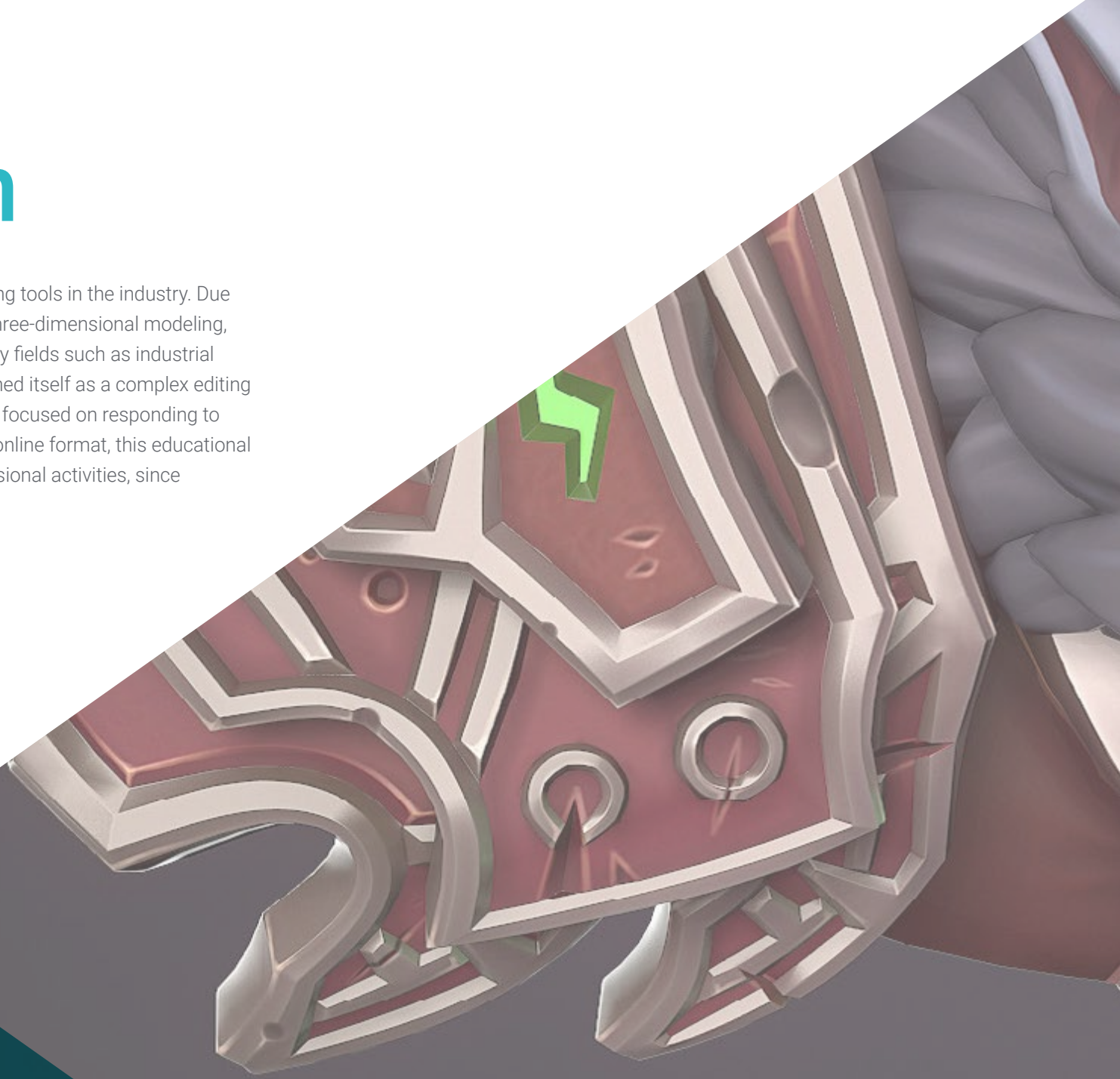
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# 01

# Introduction

ZBrush is one of the most widely used organic 3D modeling tools in the industry. Due to the growing interest of various technological areas in three-dimensional modeling, this software has been revalued. With applications in many fields such as industrial production, 3D printing or animation, ZBrush has established itself as a complex editing tool, which offers very successful finishes. This training is focused on responding to the demand for skilled ZBrush professionals. With a fully online format, this educational plan is perfect to combine with other personal and professional activities, since students can advance at their own speed and pace.





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*Be an expert in three-dimensional modeling with ZBrush and respond to the great labor demand in this sector”*

ZBrush has established itself as one of the leading organic modeling programs on the market. This Postgraduate Certificate in 3D Modeling with ZBrush is intended to enable students to create and edit three-dimensional modeling with this tool, optimizing the model as they work on it and avoiding possible problems after refinement.

Therefore, it consists of a complete educational plan aimed at understanding each of the tools offered by this software, as well as distinguishing when to use each one and why. In addition, the content includes learning the Hard Surface technique, which allows inorganic modeling. It also emphasizes the different methods of organic modeling.

All the content is condensed in an eminently practical syllabus, which will be based on applying everything learned in the creation of a character or creature, making sure that no difficulties arise from the beginning to the end. A Postgraduate Certificate in an online format, which favors the student's autonomous learning and makes all the resources and teaching materials available to the student on the virtual platform.

This **Postgraduate Certificate in 3D Modeling with Zbrush** contains the most complete and up-to-date educational program on the market. The most important features include:

- ◆ The development of case studies presented by experts in 3D Modeling with ZBrush
- ◆ The graphic, schematic and eminently practical contents with which it is conceived provide practical information on those disciplines that are essential for professional practice
- ◆ Practical exercises where the self-assessment process can be carried out to improve learning
- ◆ Its special emphasis on innovative methodologies
- ◆ Theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection assignments
- ◆ Access to content from any fixed or portable device with an Internet connection



*Apply what you have learned in the practical creation of a character or creature, achieve autonomous and effective learning"*

“

*This Postgraduate Certificate in 3D Modeling with ZBrush is designed for you to learn how to create and edit three-dimensional modeling with this tool"*

The program's teaching staff includes professionals from sector who contribute their work 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 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 student will be assisted by an innovative interactive video system created by renowned and experienced experts.

*The content includes learning the Hard Surface technique, which allows inorganic modeling.*

*In a totally online format, so you can adapt the learning to your own speed and pace.*



# 02 Objectives

With this educational plan, the student will be able to elaborate a character or creature from the beginning to the end, through the acquisition of knowledge of the utilities offered by ZBrush in 3D modeling. This Postgraduate Certificate addresses theoretical notions through practice, since learning is achieved through the construction of a figure, thus ensuring that students retain the concepts and theoretical knowledge. In addition, the syllabus responds to the requirements of the labor market and to the possible situations that a modeler may face in routine professional practice.







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*Get to apply your learning and notions in ZBrush in the elaboration of a character or creature"*



## General Objectives

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- ◆ Know in depth all the steps to create a 3D modeling of a professional's own
- ◆ Know and understand in detail how textures work and how they influence on the modeling
- ◆ Master several programs focused on modeling, texturing and real time, used today in the professional world
- ◆ Apply the knowledge acquired in the resolution of problems of a modeling
- ◆ Expertly use the knowledge acquired to create your own projects and intelligently add them to your portfolio
- ◆ Develop the resources of each program to achieve the best effect for your modeling





## Specific Objectives

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- ◆ Know in depth the ZBrush program, the most used in organic modeling in the market
- ◆ Optimize the model as you work on it, avoiding potential problems after refinement
- ◆ Understand each of the program's tools, knowing when to use each one and why
- ◆ Learn about the Hard Surface tool, which allows inorganic modeling within the program
- ◆ Knowing different methods to perform organic modeling
- ◆ Learn everything you need to start a character or creature from scratch and get through to the end without any problems

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*A Postgraduate Certificate course that will allow you to know in depth all the utilities of ZBrush"*

# 03

# Course Management

A group of experts of the highest prestige has developed this curriculum based on the professional requirements and demands of the industry. They are active professionals in the field of three-dimensional modeling, and they also have a teaching career. All of them continue to be at the forefront of the industry, and convey to their students what they have to respond to and what is expected of professionals in this field. Thus, through the content they will present and the diverse didactic materials they have developed, the student will receive the most current and requested knowledge of this industry.





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*A group of experts of the highest  
prestige make up the faculty of  
this Postgraduate Certificate"*

## Management



### Ms. Sanches Lalaguna, Ana

- 3D Designer at Lalaguna Studio
- 3D Generalist at NeuroDigital Technologies
- Freelance video game figure modeler
- 3D Artist and Narrative Responsible in the videogame "A Rising Bond" (InBreak Studios)
- Master's Degree in Videogame Art and Design (U-tad)
- Diploma in 2D and 3D Animation Filmmaking (ESDIP)
- Winner of the Best Narrative award and nominated for Best Game and Best Art at the PlayStation Awards



# 04

## Structure and Content

This Postgraduate Certificate in 3D Modeling with ZBrush has been developed based on 10 subsections. All of them, organized in an accessible and simple way, to ensure effective student learning. Thus, the syllabus goes from the explanation of the interface and basic controls, through the SubTools, brushes and Alphas, among other aspects; the main modification tools and the Adaptive Skin, Hard Surface and modifiers tools. All this will be learned in the elaboration of a character or creature that, once it is done, will be exhibited with Transpose Master, learning how to pose and illuminate it.





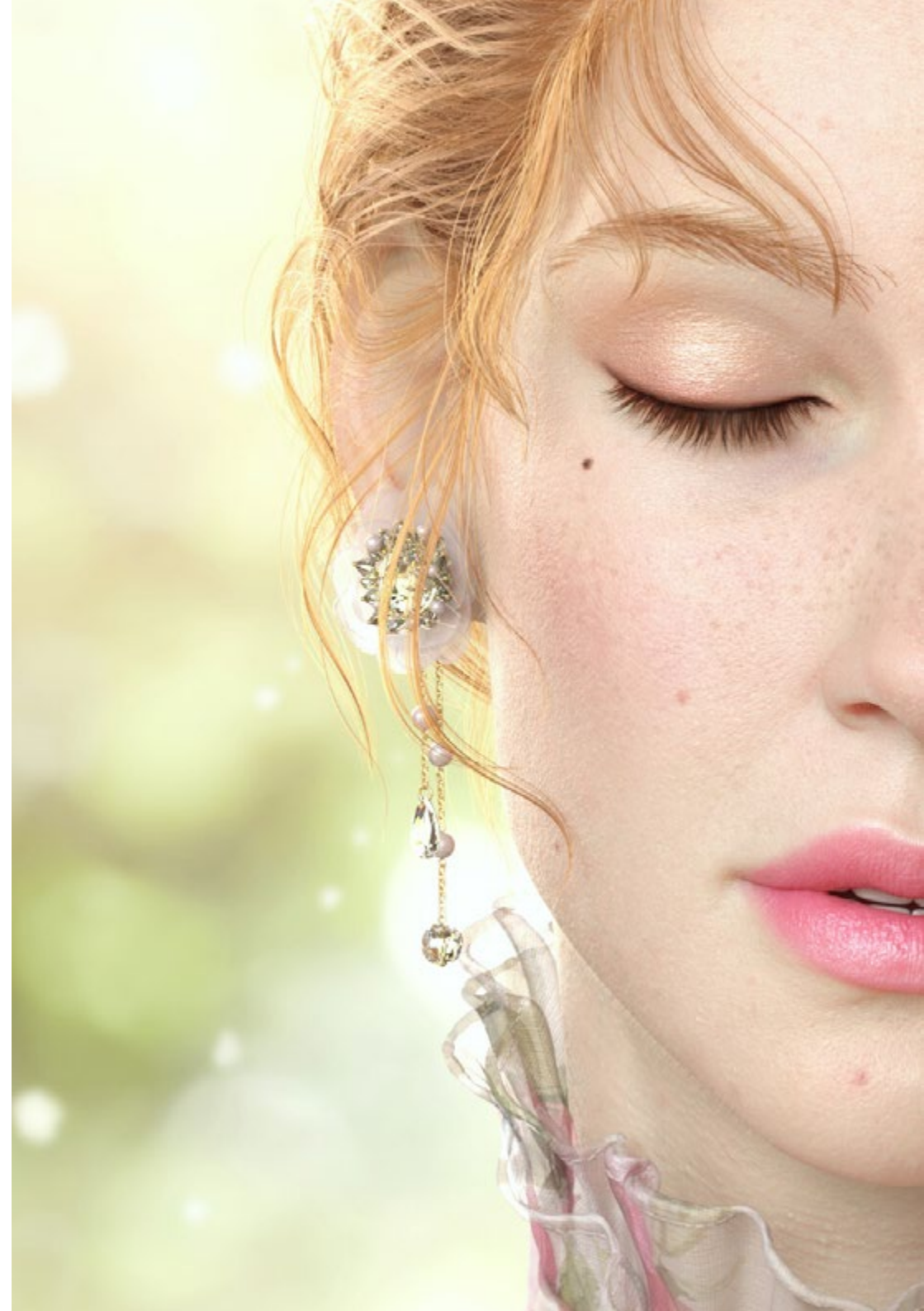


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*Develop a character or creature and learn how to pose and light it with the Transpose Master tool”*

## Module 1. 3D Modeling with ZBrush

- 1.1. ZBrush
  - 1.1.1. Interface and Basic Controls
  - 1.1.2. Subtools, Symmetry, Transpose and Deformation
  - 1.1.3. Brushes and Alphas
- 1.2. Main Tools
  - 1.2.1. Masks and Polygroups
  - 1.2.2. Subdivisions, Dynamesh y ZRemesher
  - 1.2.3. Modify Topology, Matcaps y BPR
- 1.3. Modification Tools
  - 1.3.1. Insert Multi Mesh
  - 1.3.2. Layers and Morph Target
  - 1.3.3. Projections and Extract
- 1.4. Advanced Tools
  - 1.4.1. Crease and Bevel
  - 1.4.2. Surface and Shadow Box
  - 1.4.3. Decimation Master
- 1.5. ZSpheres and Adaptive Skin
  - 1.5.1. ZSpheres Controls
  - 1.5.2. ZSketch
  - 1.5.3. Adaptive Skin
- 1.6. Dynamesh and Advanced ZRemesher
  - 1.6.1. Booleans
  - 1.6.2. Brushes
  - 1.6.3. ZRemesher Using Guides
- 1.7. Curve Brushes
  - 1.7.1. Controls and Modifiers
  - 1.7.2. Curve Surface and Other Brushes
  - 1.7.3. Creating Brushes with Curve





- 1.8. Hard Surface
  - 1.8.1. Segments with Masks
  - 1.8.2. PolyGroupIt
  - 1.8.3. Panel Loops
  - 1.8.4. ZModeler
  - 1.8.5. Primitives
- 1.9. Modifiers
  - 1.9.1. Extender and Multi Slice
  - 1.9.2. Deformer and Blend Twist
  - 1.9.3. Taper and Flatten
  - 1.9.4. Bend Arc and Bend Curve
- 1.10. Transpose Master
  - 1.10.1. Posing a Character with Transpose Master
  - 1.10.2. Corregir detalles
  - 1.10.3. Prepare Character for Rendering

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*Have you Made Up Your Mind?  
Enroll now and become an  
expert in 3D Modeling with  
ZBrush with this 6-week  
Postgraduate Certificate”*

# 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"*

## At TECH we use the Case Method

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

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



*We are the first online university to combine Harvard Business School case studies with a 100% online learning system based on repetition.*



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

This intensive Information Technology program at TECH Technological University prepares you to face all the challenges in this field, both nationally and internationally. We are committed to promoting your personal and professional growth, the best way to strive for success, that is why, at TECH Technological University, you will use Harvard case studies, with which we have a strategic agreement that allows us, to offer you material from the best university in the world.

“

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

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

The case method has been the most widely used learning system among the world's leading Information Technology schools for as long as they have existed. 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 course, students 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

Our university is the first in the world to combine Harvard University case studies with a 100% online learning system based on repetition, which combines different teaching elements in each lesson.

We enhance Harvard case studies 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 university 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 competencies and skills in each thematic area. Exercises and activities to acquire and develop the skills and abilities that a specialist needs to develop in the context of the globalization we live in.



### 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

They will complete a selection of the best case studies in the field used at Harvard. Cases that are presented, analyzed, and supervised by the best senior management 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 multimedia content presentation training Exclusive system 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 your goals.



# 06 Certificate

The Postgraduate Certificate in 3D Modeling with ZBrush guarantees, in addition to the most rigorous and up-to-date training, access to a certificate issued by TECH Technological University.





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

This **Postgraduate Certificate in 3D Modeling with Zbrush** 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 certificate issued by **TECH Technological University** will reflect the qualification obtained through the Postgraduate Certificate and meets the requirements commonly demanded by labor exchanges, competitive examinations, and professional from career evaluation committees.

Title: **Postgraduate Certificate in 3D Modeling with ZBrush**

Official N° of Hours: **150 h.**



\*Apostille Convention. In the event that the student wishes to have their paper certificate 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 quality  
development languages  
classroom



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

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