Postgraduate Diploma
Orchestration

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Orchestration

- » Modality: **online**
- » Duration: **6 months**
- » Certificate: **TECH Technological University**
- » Dedication: **8h/week**
- » Schedule: **at your own pace**
- » Exams: **online**

Website: **www.techtitute.com/pk/humanities/postgraduate-diploma/postgraduate-diploma-orchestration**

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01
Introduction

Orchestration is a field within the music industry through which thousands of composers from all over the world have managed to build a successful professional career thanks not only to their creative ability and high level of knowledge, but also to the quality of each piece and its adaptability to the context for which it was created. However, this is a very broad field in which specialists must master various subjects in order to produce music at the highest level. In order that students can find in a single degree everything they need to achieve it through their course, TECH Technological University and its team of experts have decided to create a program that gathers, precisely, the most comprehensive and innovative information to achieve it in just 6 months. This is a 100% online academic experience with which you will undoubtedly master the vocal and instrumental repertoire applied to orchestration in a guaranteed way.

> *If you are looking for a program to specialize in instrumentation and orchestration, this Postgraduate Diploma is perfect for you. Are you going to pass up the opportunity to take it 100% online?"*

Orchestration as a field goes beyond the study and practice of writing music for any ensemble. It is also in charge of adapting the works to the different genres, as well as to the instruments that compose the group that will perform them. Therefore, through the mastering of the most sophisticated harmonic techniques, the composer contributes to cultural creation through the creative and specialized interpretation of classical and modern pieces. However, this is a field that requires an exhaustive handling of the main techniques, as well as an intensive knowledge of the characteristics of the different types of orchestras and their components.

For this reason, TECH and its team versed in musicology and musical direction have developed this complete and extensive program in Orchestration, an innovative and multidisciplinary degree through which graduates will be able to handle the necessary information to master instrumentation and musical notation in just 6 months of multidisciplinary training. In addition, the student will work conscientiously in the acquisition of the necessary competencies to carry out an effective orchestral conducting, based on the different styles that exist today and the interpretative resources of each one of them.

To that end, we offer 600 hours of the best theoretical, practical and additional content, which will be presented in a convenient and accessible 100% online format. In this way, the professional will be able to access the program's course whenever they want and need it, without having to worry about tight schedules or on-site classes. The virtual campus, where all the content is hosted, is compatible with any device with Internet connection, so you can access it from anywhere you want through a cell phone, a PC or a Tablet.

This **Postgraduate Diploma in Orchestration** contains the most complete and up-to-date program on the market. The most important features include:

- The development of case studies presented by experts in musical conducting
- The graphic, schematic and practical contents of the book provide technical and practical information on those disciplines that are essential for professional practice
- Practical exercises where 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

You will work on enhancing your skills related to musical notation and conducting through 600 hours of the best theoretical, practical and additional content"

"
You will delve into the intricacies of the orchestra, from the instruments that compose it to the characteristics of chamber formation according to the acoustics of the venue"

Its teaching staff includes professionals from the sector who bring their work experience to this program, in addition to recognized specialists from leading societies and 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 education 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 during the academic year. This will be done with the help of an innovative system of interactive videos made by renowned experts.

You will acquire specialized knowledge about the characteristics of the different instruments: percussion, string and wind (and their modalities).

You will have unlimited access to the Virtual Campus, without timetables or on-site classes and through any device with Internet connection.
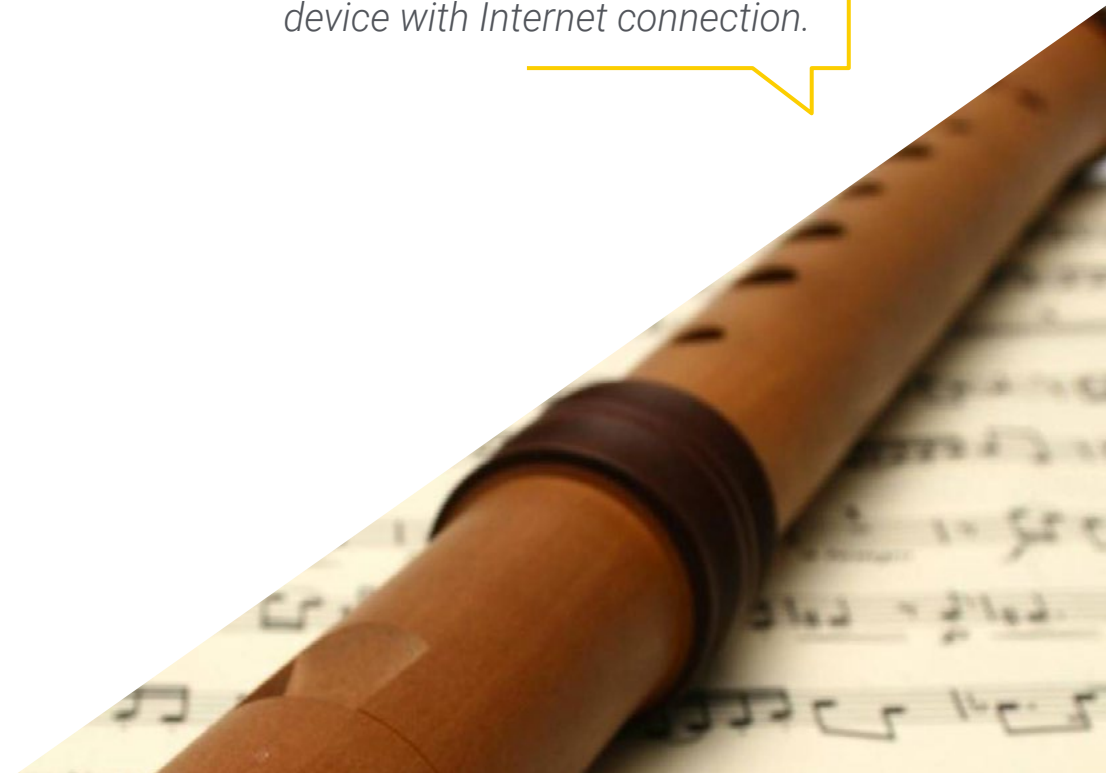
02
Objectives

This Postgraduate Diploma has designed so that students can access the most cutting-edge theoretical, practical and supplementary content that will allow them gain expertise, in just 6 months, in Orchestration and its many possibilities. Thanks to the highly demanding curriculum, any professional will be able to achieve even their highest goals through a program that is tailored to their needs and presented in a convenient and accessible 100% online format.

The most significant characteristics of this Postgraduate Diploma include the special emphasis it puts on the classification of voices for the vocal repertoire"

General Objectives

- Know the characteristics and sound possibilities of the instrument

- Adopt an adequate position of the body with respect to the instrument, which makes possible and favors the action of the arm-forearm-hand set on the keyboard

- Enable the student to combine the different orchestral instruments in a reduced format

- Know the organization and functioning of all the chords used during the period of tonal harmony practice

- Apply tuning procedures and techniques for one of the three strings of the central A of the piano based on intervention plans with quality and safety criteria

Specific Objectives

Module 1. Instrumentation and Orchestration

- Know the technical and idiomatic characteristics of the instruments integrate a symphony orchestra
- Distinguish aurally the different musical instruments, both individually and collectively
- Analyze the instrumentation of specific passages
- Acquire identification skills in terms of musical period and genre

Module 2. Vocal-Orchestral Repertoire

- Know the technical and idiomatic characteristics of the types of choir integrated with a symphony orchestra.
- Distinguish aurally the types of voices in conjunction with the orchestra.
- Distinguish the musical genre and period aurally
- Analyze the vocal part of particular passages

Module 3. Musical Notation

- Apply correctly the criteria and methods of critical edition in the musicological field and the paleographic techniques of transcription of instrumental music, from the Middle Ages to the present day
- Know the basic principles of vocal musical notation from the Middle Ages to the Baroque according to the criteria of scientific transcription
- Know the manuscripts and sources of music through the historical course

Module 4. Orchestra Conducting

- Delving into the knowledge of the different styles and the interpretative resources of each one of them
- Develop criteria on aesthetic issues through work
- Master the tuning criteria of each instrument
- Apply polyphonic listening and listen simultaneously to all the parts that integrate the orchestra

You will have access to the most cutting-edge and exhaustive material related to the different types of contemporary operas and their main representatives"

03
Structure and Content

The quality and prestige that define TECH and place it as one of the best digital universities worldwide has been the result of years of effort and struggle to shape the best 100% online educational programs. In each of them, a team versed in the fields works, which is responsible for selecting not only the theoretical information that makes up the syllabus, but also use cases based on real situations and hours of additional high-quality material. Thanks to this, it is possible to offer highly educational experiences in a comfortable and flexible format that facilitates the specialization of the graduate from any place, without schedules and through any device with Internet connection.

With this Postgraduate Diploma, you will work on the composition and adaptation of zarzuelas and masses to your own style, so that you can create unique pieces based on your professional criteria"

Module 1. Instrumentation and Orchestration

1.1.   The Orchestra

    1.1.1.   What is an Orchestra?

    1.1.2.   What Instruments Make Up an Orchestra?

    1.1.3.   Beginnings of the Orchestra

    1.1.4.   The Baroque Orchestra

    1.1.5.   The Classical Orchestra

    1.1.6.   Beethoven's Orchestra

    1.1.7.   The Post-Beethoven Orchestra

    1.1.8.   The Contemporary Orchestra

1.2.   Stringed Instruments

    1.2.1.   What Are the Stringed Instruments?

    1.2.2.   Tessitura

    1.2.3.   Special Mention of the Piano

    1.2.4.   The String Quartet

    1.2.5.   Roles of the Stringed Instruments in the Orchestra

1.3.   Woodwind Instruments

    1.3.1.   Which Are the Woodwind Instruments?

    1.3.2.   Woodwind Quintet

    1.3.3.   Tessitura

    1.3.4.   Roles of the Woodwind Instruments in the Orchestra

1.4.   Brass Instruments

    1.4.1.   Which Are the Brass Instruments?

    1.4.2.   Tessitura

    1.4.3.   Roles of the Brass Instruments in the Orchestra

    1.4.4.   Types of Brass Instruments: Conical Bore and Cylindrical Bore

1.5.   Chamber Ensembles

    1.5.1.   What are Chamber Formations?

    1.5.2.   What is Chamber Music?

    1.5.3.   Origins of Chamber Ensembles

    1.5.4.   Most Common Chamber Ensembles

1.6.   Percussion

    1.6.1.   Which are the Percussion Instruments?

    1.6.2.   Classification of Percussion Instruments

    1.6.3.   Types of Percussion

        1.6.3.1. Percussion of Drumhead

        1.6.3.2. Percussion of Blades

        1.6.3.3. Minor Percussion

    1.6.4.   Role of Percussion

1.7.   Harp and Guitar

    1.7.1.   Brief Description of the Harp

    1.7.2.   Origins of the Harp

    1.7.3.   Brief Description of the Guitar

    1.7.4.   Origins of the Guitar

    1.7.5.   Role of the Harp in the Orchestra

    1.7.6.   Role of the Guitar in the Orchestra

1.8.   Keyboard Instruments

    1.8.1.   Which are the Keyboard Instruments?

    1.8.2.   Characteristics of Keyboard Instruments

    1.8.3.   The Piano in the Orchestra

    1.8.4.   Historical Evolution of the Piano

1.9.   Soloist Instruments in the Orchestra

    1.9.1.   What is a Solo Instrument and What is its Role?

    1.9.2.   Which are the Soloist Instruments?

    1.9.3.   The Most Important Solo Instruments in the 15th-16th Centuries

    1.9.4.   Today's Most Important Solo Instruments

1.10.   The Arrangement in the Orchestra

    1.10.1.   String Instruments

    1.10.2.   Woodwind Instruments

    1.10.3.   Brass Instruments

    1.10.4.   Percussion

Module 2. Vocal-Orchestral Repertoire

2.1.   Classification of Voices

    2.1.1.   Introduction to Voice Types

    2.1.2.   Soprano

    2.1.3.   Mezzo Soprano

    2.1.4.   Contralto

    2.1.5.   Countertenor

    2.1.6.   Tenor

    2.1.7.   Baritone

    2.1.8.   Bass

2.2.   Opera

    2.2.1.   The Beginnings of Opera

    2.2.2.   The Italian Opera

        2.2.2.1. Baroque

        2.2.2.2. Reforms of Gluck and Mozart

        2.2.2.3. The Bel Canto

    2.2.3.   German Opera

    2.2.4.   Composers and Opera to Highlight

2.3.   Structure of the Opera

    2.3.1.   Acts and Scenes

    2.3.2.   The Recitative

    2.3.3.   Duets, Tercets

    2.3.4.   Choral Part

2.4.   The Operetta

    2.4.1.   What is the Operetta?

    2.4.2.   The French Operetta

    2.4.3.   The Viennese Operetta

    2.4.4.   Influence of the Operetta in the Beginnings of the Musical

2.5.   The Opera Bufa

    2.5.1.   What is the Opera Bufa?

    2.5.2.   Beginnings of the Opera Bufa

    2.5.3.   The Cilla. Michelangelo Faggioli

    2.5.4.   Most Important Bufa Operas

2.6.   The French Comic Opera

    2.6.1.   What is the French Comic Opera?

    2.6.2.   When did French Comic Opera Emerge?

    2.6.3.   Evolution of the French Comic Opera at the End of the 18th Century

    2.6.4.   Main Composers of French Comic Opera

2.7.   The English Ballad Opera and the German Singspiel

    2.7.1.   Introduction to the Ballad Opera

    2.7.2.   Introduction to the Singspiel

    2.7.3.   Origins of the Singspiel

    2.7.4.   The Singspiel in the Rococo Period

    2.7.5.   Main Singspiel and its Composers

2.8.   Zarzuela

    2.8.1.   What is La Zarzuela?

    2.8.2.   Beginnings of Zarzuela

    2.8.3.   Main Zarzuelas

    2.8.4.   Main Composers

2.9.   The Mass

    2.9.1.   Description of the Mass Genre

    2.9.2.   Parts of the Mass

    2.9.3.   The Requiem

    2.9.4.   Most Outstanding Requiems

        2.9.4.1. Mozart's Requiem

2.10.   The Symphony and the Chorus

    2.10.1.   The Choral Symphony

    2.10.2.   Birth and Evolution

    2.10.3.   Main Symphonies and Composers

    2.10.4.   Unaccompanied Choral Symphonies

Module 3. Musical Notation

3.1. Gregorian Chant Notations
- 3.1.1. The Neumes, Breathing, Custos
- 3.1.2. Adiasmatic Notations
- 3.1.3. Diasthematic Notations
- 3.1.4. Modern Editions of Gregorian Chant

3.2. First Polyphonies
- 3.2.1. The Parallel Organum Musica Enchiriadis
- 3.2.2. The Dasian Notation (First Polyphonies)
- 3.2.3. Alphabetic Notation
- 3.2.4. The Notation of St. Martial of Limoges

3.3. The Codex Calixtinus
- 3.3.1. The Diasthematic Notation of the Codex
- 3.3.2. The Authorship of the Codex Calixtinus
- 3.3.3. Type of Music Found in the Codex
- 3.3.4. The Polyphonic Music of the CodexBook V

3.4. The Notation at the School of Notre Dame
- 3.4.1. The Repertoire and its Sources
- 3.4.2. Modal Notation and Rhythmic Modes
- 3.4.3. The Notation in the Different Genres: Organa, Conducti and Motets
- 3.4.4. Main Manuscripts

3.5. The Notation of the Ars Antiqua
- 3.5.1. Ars Antiqua and Ars NovaTerminology
- 3.5.2. The Pre-Franconian Notation
- 3.5.3. The Franconian Notation
- 3.5.4. The Petronian Notation

3.6. Notation in the 14th Century
- 3.6.1. The Notation of the French Ars Nova
- 3.6.2. The Notation of the Italian Trecento
- 3.6.3. The Division of Longa, Breve and Semibreve
- 3.6.4. The Ars Subtilior

3.7. The Copyists
- 3.7.1. Introduction
- 3.7.2. The Origins of the Calligraphy
- 3.7.3. History of Copyists
- 3.7.4. Music Copyists

3.8. The Printing Press
- 3.8.1. Bi Sheng and the First Chinese Printing Press
- 3.8.2. Introduction to Printing Press
- 3.8.3. The Gutenberg Printing Press
- 3.8.4. The First Printings
- 3.8.5. The Printing Press Today

3.9. Music Printing Press
- 3.9.1. Babylon. First Forms of Musical Notation
- 3.9.2. Ottaviano Petrucci. Printing with Movable Type
- 3.9.3. John Rastell's Printing Model
- 3.9.4. Intaglio Printing

3.10. The Current Musical Notation
- 3.10.1. The Representation of Duration
- 3.10.2. The Representation of Pitches
- 3.10.3. Musical Expression
- 3.10.4. Tablature

Module 4. Orchestra Conducting

4.1. Orchestra Conductors
    4.1.1. Introduction
    4.1.2. Role of the Orchestra Conductor
    4.1.3. Composer-Conductor Relationship
    4.1.4. Most Renowned Conductors

4.2. The Gesture
    4.2.1. The levare
    4.2.2. The Vertical Gesture
    4.2.3. The Cross
    4.2.4. Triangle

4.3. The Free Pulse
    4.3.1. The Free Pulse in the Fundamental Figures
    4.3.2. Regular Time Signatures
    4.3.3. Irregular Time Signatures
    4.3.4. Irregular Cross Time Signatures

4.4. The Anacrustic Beginning
    4.4.1. What is an Anacrusis?
    4.4.2. Anacrustic Beginning on Fundamental Figures
    4.4.3. The levare normal
    4.4.4. El levare metric

4.5. The Tempo
    4.5.1. Tempo Alterations as Part of Musical Speech
    4.5.2. Tempo Changes after a Pause
    4.5.3. Progressive Changes
    4.5.4. The Change of Tempo, Pulse and Time Signature

4.6. The Baton
    4.6.1. Introduction. Origin and Creator of the Baton
    4.6.2. The Handle
    4.6.3. Rod
    4.6.4. Length

4.7. The Piano
    4.7.1. Sight-Reading of Sheet Music for Two Hands
    4.7.2. Musical Transport
    4.7.3. Harmonic Connections
    4.7.4. Composition

4.8. Vocal Groups
    4.8.1. The Human Voice and its Classification
    4.8.2. Technical Rudiments of Conducting Applied to Vocal Music
    4.8.3. The Vocal Repertoire
    4.8.4. The Rehearsal, the Planning and the Concert

4.9. Instrumental Groups
    4.9.1. Organology
    4.9.2. Technical Rudiments of Conducting Applied to Instrumental Music
    4.9.3. The Instrumental Repertoire
    4.9.4. The Rehearsal, the Planning and the Concert

4.10. Tuning
    4.10.1. Steps in Orchestral Tuning
    4.10.2. The Oboe and the Tuning of the Orchestra
    4.10.3. The Concertmaster
    4.10.4. Historical Evolution of the Tuning

Choose a program like this one, which will raise your musical level to the highest to help you get the orchestra conducting position you've always wanted"

04
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 has been the most widely used learning system among the world's leading Humanities 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 we face 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.

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. With this methodology we have 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, markets, and financial 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.

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.

05
Certificate

The Postgraduate Diploma in Orchestration guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Diploma issued by TECH Technological University.

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

This **Postgraduate Diploma in Orchestration** 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 Diploma**, issued by **TECH Technological University** via tracked delivery*.

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

Title: **Postgraduate Diploma in Orchestration**

Official Nº of Hours: **600 h.**

tech technological university

Awards the following

CERTIFICATE
to

Mr./Ms. _____, with identification number _____.
For having passed and accredited the following program

POSTGRADUATE DIPLOMA
in

Orchestration

This is a qualification awarded by this University, equivalent to 600 hours, with a start date of dd/mm/yyyy and an end date of dd/mm/yyyy.

TECH is a Private Institution of Higher Education recognized by the Ministry of Public Education as of June 28, 2018.

June 17, 2020

Tere Guevara Navarro
Dean

Unique TECH Code: AFWORD23S   techtitute.com/certificates

*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.

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