

# Postgraduate Certificate Piano Tuning





## Postgraduate Certificate Piano Tuning

- » Modality: online
- » Duration: 12 weeks
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

Website: [www.techtute.com/in/humanities/postgraduate-certificate/piano-tuning](http://www.techtute.com/in/humanities/postgraduate-certificate/piano-tuning)

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# 01

# Introduction

Piano tuning is a complex process that requires a series of specialized technical and listening skills. Not surprisingly, the piano consists of more than 200 strings stretched on a wooden frame, each of which must be tuned to achieve a harmonious and coherent sound. Therefore, this degree is valuable for those interested in music and the art of tuning plucked stringed instruments. Thus, they will be able to tune this musical instrument in the most efficient way possible. In addition, the degree is delivered online, which means that students can access it from anywhere in the world. In fact, the Relearning methodology and the flexibility to organize the academic resources guarantee a personalized preparation.





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*Don't miss the opportunity to position yourself as a well-versed pianist with the most effective tuning techniques"*

The piano is an instrument of great importance in classical and popular music, and its correct tuning is essential for its sound to be harmonious and pleasing to the human ear. But tuning is a complex process that requires technical and practical knowledge in the field. In fact, it is important to note that it is not just a matter of simply adjusting the piano strings, but involves a process of analyzing the structure and characteristics of the instrument in order to achieve an accurate and lasting tuning.

Thus, the Diploma in Piano Tuning is positioned as a specialization that seeks to provide students with the knowledge and skills necessary to correctly tune a piano. The program consists of different modules that cover everything from the structure and operation of the piano to the theory and practice of tuning. In addition, specific techniques and tools for identifying notes and octaves, using specialized tools and making fine adjustments will be taught.

This valuable academic opportunity is taught 100% online, which allows students to access content and activities from anywhere and at any time. In addition, the Relearning pedagogical methodology is used, which is based on the directed reiteration of concepts. The use of multimedia resources is also encouraged to enrich the educational cycle.

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

- ♦ The development of case studies presented by Piano Tuning experts
- ♦ 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 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



*Specialize in piano tuning and develop the techniques to obtain the temperament of the instrument. starting from 'A 4' "*

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*You will achieve rhythmic-melodic independence between the two hands thanks to this qualification"*

*Apply the different articulations to play like a skilled pianist.*

*You will broaden your musical background with a unique qualification in the market.*

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 immersive 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.





# 02 Objectives

Playing and tuning the piano requires a specialized practice based on the concept of Music, its fields and instrumentation, since it is necessary to establish the tempo and the development of the theme that is being interpreted. Therefore, the purpose of this Diploma is to offer in a single degree the most complete compendium of knowledge possible so that the student can acquire skills in this area, obtaining a solvent management of harmony, vocal repertoire and musical notation.





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*Achieve TECH Technological University objectives and execute scales with mastery”*



## General Objectives

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- To 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
- To enable the student to combine the different orchestral instruments in a reduced format
- Know the organization and functioning of all chords used during the tonal harmony practice period
- 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



*Improve all your career prospects in the field of Music by having all the keys to handle the piano"*







## Specific Objectives

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- ♦ To develop a correct fingering, exercising mobility, independence and strength of the fingers
- ♦ You will achieve rhythmic-melodic independence between the two hands
- ♦ Achieve rhythmic-melodic independence between the two hands
- ♦ Know and apply different articulations
- ♦ Achieve a basic level of two-handed reading
- ♦ Relate and apply knowledge of musical language to the instrument
- ♦ Apply tuning procedures and techniques for one of Procurement of the central A 4 of the piano based on intervention plans with quality and safety criteria
- ♦ Apply tuning procedures and techniques for one of the three strings of the central Procurement of the piano based on intervention plans with quality and safety criteria
- ♦ Apply temperament extension procedures and techniques to the complete tessitura of the piano, starting from the central reference scale tuned with quality and safety criteria



# 03

## Structure and Content

The curriculum of this Diploma has been created jointly by TECH Technological University and a team of music management specialists, who have invested a long period of time to develop an innovative educational program at the forefront of the industry. In addition to high quality theoretical and practical content, this degree also features interactive outlines, complementary readings, self-assessment exercises and other resources that allow students to delve deeper into the different topics of the syllabus.





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*It traces the evolution of the piano as a musical instrument with a fully updated curriculum"*

## Module 1. Piano initiation

- 1.1. The Piano
  - 1.1.1. Organological description of the piano musical instrument
  - 1.1.2. Main parts of the piano
  - 1.1.3. Evolution of the piano as a musical instrument
  - 1.1.4. Most relevant composers
- 1.2. Musical notes
  - 1.2.1. Location of notes
  - 1.2.2. Treble clef and bass clef
  - 1.2.3. Right and left hand association
  - 1.2.4. Ascending and descending musical notes
  - 1.2.5. Digits
- 1.3. Figures, dynamics and musical nuances
  - 1.3.1. Musical figures and their practical application
  - 1.3.2. Dynamics and their practical application
  - 1.3.3. Musical nuances and their practical application
  - 1.3.4. Figures, dynamics and musical nuances together on the piano
- 1.4. Introduction to music reading
  - 1.4.1. Reading sheet music in the key of G
  - 1.4.2. Reading sheet music in the key of G
  - 1.4.3. Union of the two musical keys
  - 1.4.4. Internalization of concepts acquired at the piano
- 1.5. Improvisation
  - 1.5.1. The main musical scales
  - 1.5.2. The main musical chords
  - 1.5.3. The main musical tonalities
  - 1.5.4. Musical improvisation techniques
- 1.6. Hearing application
  - 1.6.1. Auditory recognition of melodic intervals
  - 1.6.2. Aural recognition of major and minor chords
  - 1.6.3. Aural recognition of augmented and diminished chords
  - 1.6.4. Execute intervals
  - 1.6.5. Performing major and minor chords

- 1.7. Composition
  - 1.7.1. Written composition of a short piece of music in the key of G
  - 1.7.2. Written composition of a short piece of music in the key of G
  - 1.7.3. Composition of a passage of a piece of music using both musical clefs
  - 1.7.4. Improvisation composition of a short piece of music
- 1.8. Sight reading
  - 1.8.1. Intonation at first sight
  - 1.8.2. Rhythm at first sight
  - 1.8.3. Sight-reading of a short piece of music in the key of G
  - 1.8.4. Sight reading of a brief piece of music in the key of G
  - 1.8.5. Sight reading of a passage in the key of G and F
- 1.9. The pedal
  - 1.9.1. Introduction to the pedal
  - 1.9.2. Recognition of the three piano pedals
  - 1.9.3. Recognition of pedal symbols
  - 1.9.4. Coordination and internalization of the pedal with both hands
- 1.10. Four-hand technique
  - 1.10.1. What is four-handed interpreting?
  - 1.10.2. Main repertoire composed to be performed with four hands
  - 1.10.3. Performance of a four-hand piece in its melodic part
  - 1.10.4. Performance of a four-hand piece in its Harmonics part

## Module 2. Piano Tuning

- 2.1. The invention of the piano
  - 2.1.1. What is a piano?
  - 2.1.2. Ancestors and origins of the piano
  - 2.1.3. Bartolomeo Cristofori
  - 2.1.4. The transformations that the piano has undergone
- 2.2. Piano types
  - 2.2.1. The upright piano
  - 2.2.2. The one-quarter and half-tail piano
  - 2.2.3. The grand piano
  - 2.2.4. The electric piano



- 2.3. Tuning tools
  - 2.3.1. The tuning key
  - 2.3.2. Tuning fork
  - 2.3.3. Mutes, clamps and felt strips
  - 2.3.4. Rubber wedges
- 2.4. The beating
  - 2.4.1. What is beating?
  - 2.4.2. Slow whipping
  - 2.4.3. The fast whipping
  - 2.4.4. Beating frequencies
  - 2.4.5. Beat tones
- 2.5. Temperament
  - 2.5.1. What is temperament?
  - 2.5.2. Acoustic physics and temperament
  - 2.5.3. Mesotonic temperament
  - 2.5.4. Temperament Equal
- 2.6. Piano strings
  - 2.6.1. What is the piano string?
  - 2.6.2. Steel or flat strings
  - 2.6.3. Bordon strings
  - 2.6.4. Main string manufacturers
- 2.7. The condition of the piano
  - 2.7.1. Evaluation of the condition of the piano cabinet
  - 2.7.2. Evaluation of the condition of the piano cabinet
  - 2.7.3. Evaluation of the condition of the piano cabinet
  - 2.7.4. Evaluation of the state of piano harmonization
- 2.8. Replacement of piano mechanics parts and components
  - 2.8.1. Preparation of the piano for accessibility
  - 2.8.2. Making corrections to elements of the harmonic ensemble of the piano
  - 2.8.3. Assembly and disassembly of piano parts to be repaired
  - 2.8.4. Selection and preparation of strings and/or bass strings
- 2.9. The octaves
  - 2.9.1. Ora Railsback and octave stretching
  - 2.9.2. Inharmony
  - 2.9.3. The piano center with its 4 first theoretical harmonics
  - 2.9.4. Theoretical octave piano tuning
  - 2.9.5. Realistic octave piano tuning
- 2.10. The Construction of the piano
  - 2.10.1. Piano construction materials
  - 2.10.2. Creation of the basic structure
  - 2.10.3. Tension resonator and harmonic table
  - 2.10.4. The pegbox
  - 2.10.5. Keyboard and hammers



*Octaves, keyboard, hammers... All the elements to highlight in piano tuning have been collected in the syllabus"*

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.



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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 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.





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.



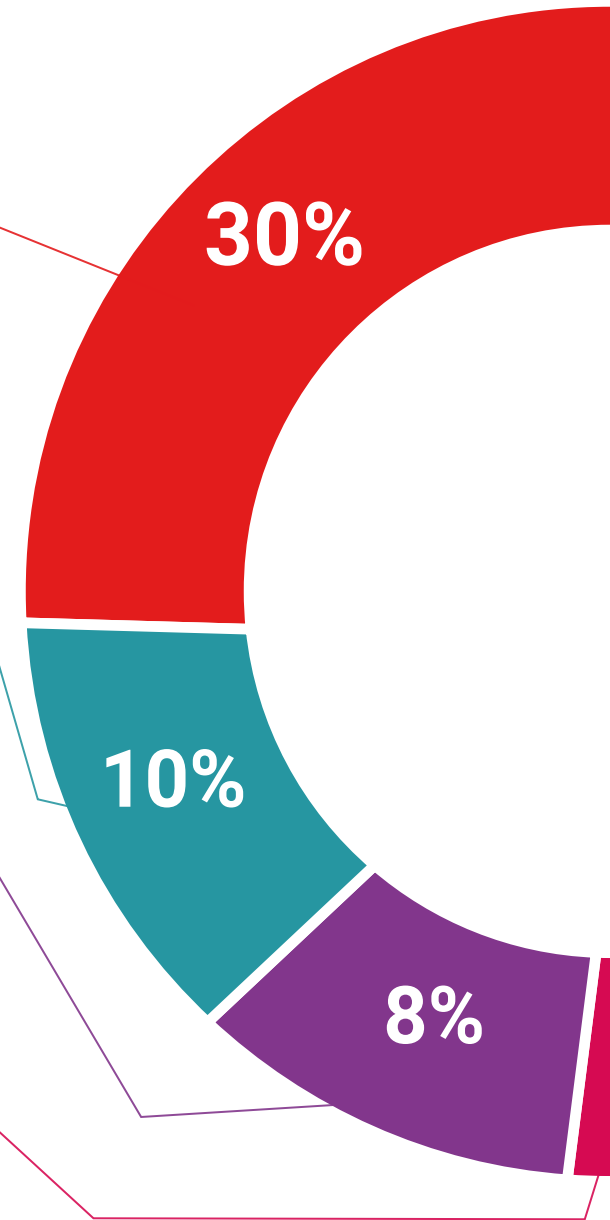
### Practising Skills and Abilities

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.





#### 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 Certificate in Piano Tuning 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 Piano Tuning** 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 in the Postgraduate Certificate, and meets the requirements commonly demanded by labor exchanges, competitive examinations, and professional career evaluation committees.

Title: **Postgraduate Certificate in Piano Tuning**

Official N° of Hours: **300 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.





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