

Postgraduate Certificate

Acute Lymphoblastic Leukemia



Postgraduate Certificate Acute Lymphoblastic Leukemia

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

Website: www.techtitute.com/us/medicine/postgraduate-certificate/acute-lymphoblastic-leukemia

Index

01

Introduction

p. 4

02

Objectives

p. 8

03

Structure and Content

p. 14

04

Study Methodology

p. 16

05

Certificate

p. 26

01

Introduction

Acute lymphoblastic leukemia is a type of blood cancer that mainly affects children and young adults. This disease is characterized by the abnormal production of white blood cells in the bone marrow, which can lead to a number of serious complications. Against this background, TECH has been conducting a program in these aspects and aims to provide the approach to the conditions, both from a clinical and therapeutic point of view. The curriculum is 100% online and is designed for health professionals who want to expand their knowledge about this type of leukemia and its treatment. The degree uses a Relearning pedagogical methodology, which focuses on continuous learning and the development of practical skills.



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*With TECH you will learn from leading educators
in the field of Acute Lymphoblastic Leukemia in
a flexible and cutting-edge educational model”*

Acute lymphoblastic leukemia (ALL) is a type of cancer that mainly affects children and young adults. It originates in lymphocyte precursor cells and is characterized by the abnormal and excessive production of white blood cells in the bone marrow. This disease can lead to a number of serious complications, such as anemia, infections and central nervous system problems.

Due to the complexity of the disease, it is necessary for medical specialists to have specialized training in the diagnosis and treatment of ALL. In this context, the Postgraduate Certificate in Acute Lymphoblastic Leukemia is presented as a fundamental tool for the training of health experts.

The Postgraduate Certificate in Acute Lymphoblastic Leukemia is a 100% online program that aims to provide theoretical and practical knowledge about ALL. The program is designed for healthcare professionals, such as physicians, nurses, and others, who wish to expand their knowledge in this field.

This qualification is structured into various modules that cover topics ranging from fundamental aspects—such as epidemiology and pathophysiology—to more advanced concepts. In addition, specific topics are included, such as neurological complications, cell therapy, and genomics.

The pedagogical methodology is based on Relearning, which focuses on continuous learning and the development of practical skills. Participants have access to a virtual platform where they can access academic resources such as texts, videos and didactic materials. In addition, the Postgraduate Certificate features a team of specialized tutors who provide support and guidance to participants.

This **Postgraduate Certificate in Acute Lymphoblastic Leukemia** contains the most complete and up-to-date scientific program on the market. The most important features include:

- ♦ The development of practical case studies presented by experts in Acute Lymphoblastic Leukemia
- ♦ The graphic, schematic and eminently practical contents with which it is conceived gather scientific and practical information on those disciplines that are indispensable 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
- ♦ Content that is accessible from any fixed or portable device with an Internet connection



Master the skills necessary for the diagnosis and treatment of ALL with this Postgraduate Postgraduate Certificate"

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Access state-of-the-art multimedia and multi-channel resources for comprehensive training in the Postgraduate Certificate in ALL”

Expand your career horizons and improve your professional opportunities with TECH.

Learn in an interactive and practical way from the comfort of your home at any time you want.

The program's teaching staff includes professionals from the field who contribute their work experience to this educational 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 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 course. For this purpose, students will be assisted by an innovative interactive video system created by renowned experts.



02 Objectives

This Postgraduate Certificate in Acute Lymphoblastic Leukemia seeks to update the specialist in oncohematology with the most current scientific evidence. Students will learn about the new diagnostic classifications, the choice of treatment for this type of pathology. They will also focus on the real long-term benefit of patients, without being influenced by the interests of the pharmaceutical industry. For this reason, TECH has established a series of general and specific objectives to ensure the highest level of satisfaction for future graduates.



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At TECH, our focus is you: Discover the latest trends in research and treatment of ALL, and provide your patients with the highest quality of care”



General Objectives

- Explore the etiopathogenesis, diagnosis, and prognosis of Myelodysplastic Syndromes
- Update knowledge on the pharmacological treatments used in Oncohematology
- Investigate the most recent scientific publications on the most appropriate treatments in ALL
- Delve into the growing problem of resistant microorganisms
- Evaluate current evidence and recommendations in prophylaxis
- Delve into the routine care of oncohematological patients affected by SARS-CoV2



You will achieve your goals with the support of our tools and the guidance of top professionals every step of the way"





Specific Objectives

- ♦ Delve into the etiopathogenesis of acute lymphoblastic leukemias
- ♦ Highlight the importance of accurate immunophenotypic classification by flow cytometry, as well as the prognostic significance of genetic and molecular abnormalities in different ALL subgroups
- ♦ Delve into the role of measurable residual disease (MRD) assessment through flow cytometry or molecular techniques
- ♦ Identify the current protocols of the Spanish cooperative group, their similarities and differences with those of leading international groups, and understand the challenges in determining the benefit of each potential modification within such a complex treatment framework involving numerous variables
- ♦ Evaluate the evidence to position HSCT in the different subgroups of patients with ALL
- ♦ Identify the outcomes of different treatment alternatives in patients with relapsed or refractory ALL, including bispecific antibodies like blinatumomab, antibody-drug conjugates like inotuzumab, or cell therapy with chimeric antigen receptor T cells (CAR-T)

03

Structure and Content

The Postgraduate Certificate in Acute Lymphoblastic Leukemia offers a comprehensive academic program covering the latest research in the field of oncohematology. Students will have the opportunity to explore new diagnostic and pharmacological techniques in the fight against this syndrome and its associated complications. In addition, innovative learning materials are available online 7 days a week, allowing students to access content flexibly and at their own pace.

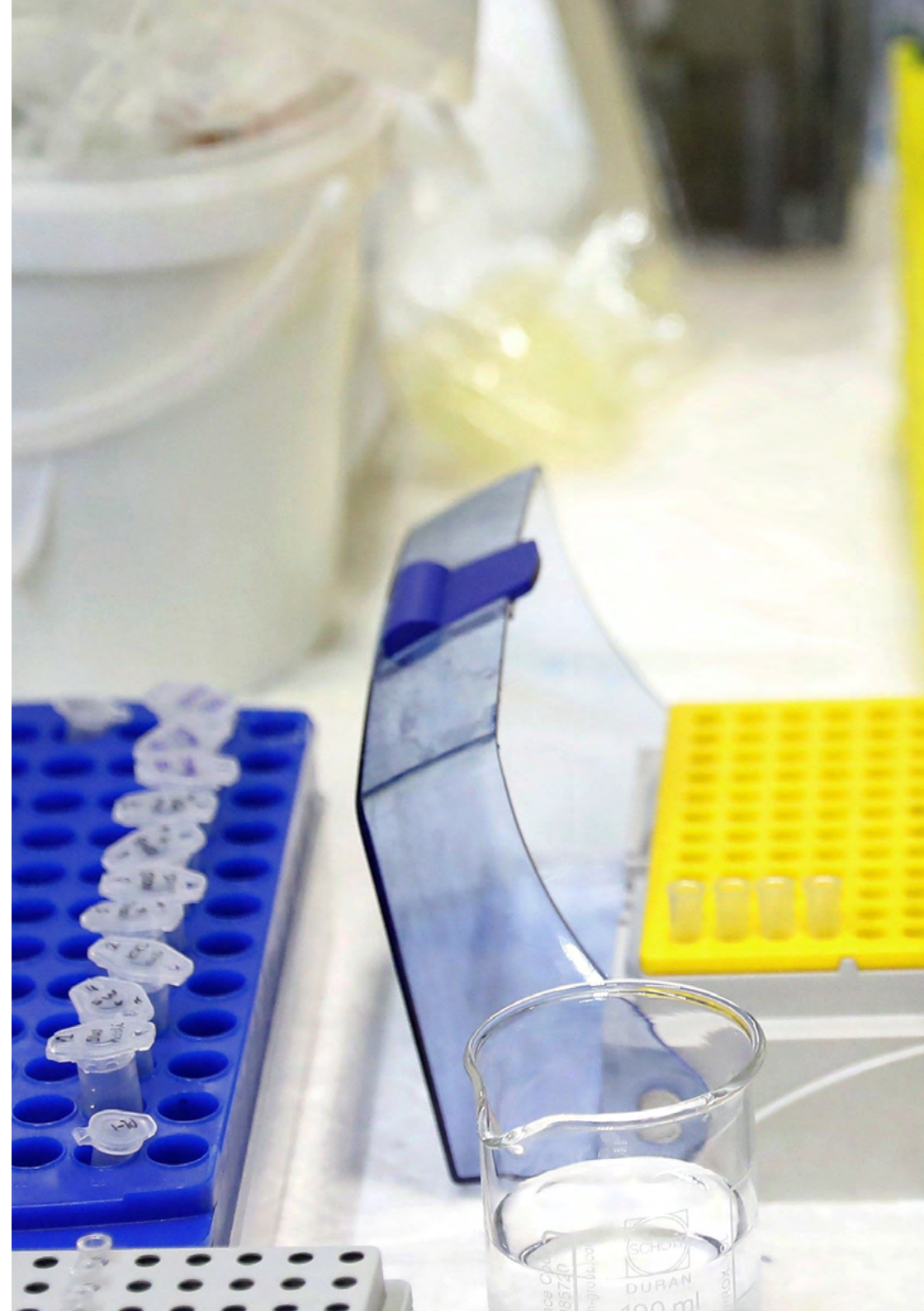


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Enroll now and prepare to face the challenges and demands of the field of ALL—an area of medicine that is evolving at an exponential pace”

Module 1. Acute Lymphoblastic Leukemia

- 1.1. Epidemiology and Pathogenesis
 - 1.1.1. Epidemiology
 - 1.1.2. Pathogenesis
 - 1.1.3. Clinical Features
- 1.2. Diagnosis
 - 1.2.1. Cytology and Flow Cytometry
 - 1.2.2. Cytogenetics and Molecular Biology
 - 1.2.3. WHO Classification
- 1.3. Adolescents and Young Adults
 - 1.3.1. Pediatric Protocols
 - 1.3.2. Management in Adult vs. Pediatric Units
- 1.4. Prognosis
 - 1.4.1. Poor Prognosis Factors
 - 1.4.2. Risk Stratification
 - 1.4.3. Role of Minimal Residual Disease
- 1.5. Induction Therapy
 - 1.5.1. Role of Vinca Alkaloids, Anthracyclines, and Steroids
 - 1.5.2. Role of Asparaginase and Its Variants
 - 1.5.3. CNS Prophylaxis
- 1.6. Post-Remission Therapy
 - 1.6.1. Concept of Complete Remission (CR) and Measurable Residual Disease (MRD)
 - 1.6.2. Consolidation: Management of High-Dose Methotrexate (MTX)
 - 1.6.3. Consolidation: Role of Cytarabine (Ara-C) and Reinduction Therapy
 - 1.6.4. Maintenance Therapy





- 1.7. Allogeneic HSCT in 1st Line ALL
 - 1.7.1. Limited Level of Evidence
 - 1.7.2. UK/ECOG Study
 - 1.7.3. Importance of Eliminating MRD Pre-HSCT
- 1.8. Treatment in Relapse/Refractory Cases
 - 1.8.1. Rescue Chemotherapy
 - 1.8.2. Bispecific or Conjugated Antibodies
 - 1.8.3. Cell Therapy, CAR T
- 1.9. Ph+ ALL
 - 1.9.1. Pathogenesis and Diagnosis
 - 1.9.2. Treatment Protocols Including TKIs
 - 1.9.3. Role of HSCT and Bispecific or Conjugated Antibodies
 - 1.9.4. Ph+ ALL-like
- 1.10. T-cell ALL
 - 1.10.1. Epidemiology and Pathogenesis
 - 1.10.2. Diagnosis and Prognosis
 - 1.10.3. Treatment

“ Access effective and interactive multichannel resources to make your learning more dynamic and optimal”

04 Study Methodology

TECH is the world's first university to combine the **case study** methodology with **Relearning**, a 100% online learning system based on guided repetition.

This disruptive pedagogical strategy has been conceived to offer professionals the opportunity to update their knowledge and develop their skills in an intensive and rigorous way. A learning model that places students at the center of the educational process giving them the leading role, adapting to their needs and leaving aside more conventional methodologies.



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TECH will prepare you to face new challenges in uncertain environments and achieve success in your career”

The student: the priority of all TECH programs

In TECH's study methodology, the student is the main protagonist.

The teaching tools of each program have been selected taking into account the demands of time, availability and academic rigor that, today, not only students demand but also the most competitive positions in the market.

With TECH's asynchronous educational model, it is students who choose the time they dedicate to study, how they decide to establish their routines, and all this from the comfort of the electronic device of their choice. The student will not have to participate in live classes, which in many cases they will not be able to attend. The learning activities will be done when it is convenient for them. They can always decide when and from where they want to study.

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*At TECH you will NOT have live classes
(which you might not be able to attend)”*



The most comprehensive study plans at the international level

TECH is distinguished by offering the most complete academic itineraries on the university scene. This comprehensiveness is achieved through the creation of syllabi that not only cover the essential knowledge, but also the most recent innovations in each area.

By being constantly up to date, these programs allow students to keep up with market changes and acquire the skills most valued by employers. In this way, those who complete their studies at TECH receive a comprehensive education that provides them with a notable competitive advantage to further their careers.

And what's more, they will be able to do so from any device, pc, tablet or smartphone.

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TECH's model is asynchronous, so it allows you to study with your pc, tablet or your smartphone wherever you want, whenever you want and for as long as you want”

Case Studies and Case Method

The case method has been the learning system most used by the world's best business schools. Developed in 1912 so that law students would not only learn the law based on theoretical content, its function was also to present them with real complex situations. In this way, they could make informed decisions and value judgments about how to resolve them. In 1924, Harvard adopted it as a standard teaching method.

With this teaching model, it is students themselves who build their professional competence through strategies such as Learning by Doing or Design Thinking, used by other renowned institutions such as Yale or Stanford.

This action-oriented method will be applied throughout the entire academic itinerary that the student undertakes with TECH. Students will be confronted with multiple real-life situations and will have to integrate knowledge, research, discuss and defend their ideas and decisions. All this with the premise of answering the question of how they would act when facing specific events of complexity in their daily work.



Relearning Methodology

At TECH, case studies are enhanced with the best 100% online teaching method: Relearning.

This method breaks with traditional teaching techniques to put the student at the center of the equation, providing the best content in different formats. In this way, it manages to review and reiterate the key concepts of each subject and learn to apply them in a real context.

In the same line, and according to multiple scientific researches, reiteration is the best way to learn. For this reason, TECH offers between 8 and 16 repetitions of each key concept within the same lesson, presented in a different way, with the objective of ensuring that the knowledge is completely consolidated during the study process.

Relearning will allow you to learn with less effort and better performance, involving you more in your specialization, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation to success.



A 100% online Virtual Campus with the best teaching resources

In order to apply its methodology effectively, TECH focuses on providing graduates with teaching materials in different formats: texts, interactive videos, illustrations and knowledge maps, among others. All of them are designed by qualified teachers who focus their work on combining real cases with the resolution of complex situations through simulation, the study of contexts applied to each professional career and learning based on repetition, through audios, presentations, animations, images, etc.

The latest scientific evidence in the field of Neuroscience points to the importance of taking into account the place and context where the content is accessed before starting a new learning process. Being able to adjust these variables in a personalized way helps people to remember and store knowledge in the hippocampus to retain it in the long term. This is a model called Neurocognitive context-dependent e-learning that is consciously applied in this university qualification.

In order to facilitate tutor-student contact as much as possible, you will have a wide range of communication possibilities, both in real time and delayed (internal messaging, telephone answering service, email contact with the technical secretary, chat and videoconferences).

Likewise, this very complete Virtual Campus will allow TECH students to organize their study schedules according to their personal availability or work obligations. In this way, they will have global control of the academic content and teaching tools, based on their fast-paced professional update.



The online study mode of this program will allow you to organize your time and learning pace, adapting it to your schedule"

The effectiveness of the method is justified by four fundamental achievements:

1. Students who follow this method not only achieve the assimilation of concepts, but also a development of their mental capacity, through exercises that assess real situations and the application of knowledge.
2. Learning is solidly translated into practical skills that allow the student to better integrate into the real world.
3. Ideas and concepts are understood more efficiently, given that the example situations are based on real-life.
4. Students like to feel that the effort they put into their studies is worthwhile. This then translates into a greater interest in learning and more time dedicated to working on the course.

The university methodology top-rated by its students

The results of this innovative teaching model can be seen in the overall satisfaction levels of TECH graduates.

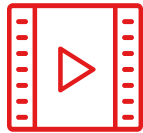
The students' assessment of the teaching quality, the quality of the materials, the structure of the program and its objectives is excellent. Not surprisingly, the institution became the top-rated university by its students according to the global score index, obtaining a 4.9 out of 5.

Access the study contents from any device with an Internet connection (computer, tablet, smartphone) thanks to the fact that TECH is at the forefront of technology and teaching.

You will be able to learn with the advantages that come with having access to simulated learning environments and the learning by observation approach, that is, Learning from an expert.



As such, the best educational materials, thoroughly prepared, will be available in this program:



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.

This content is then adapted in an audiovisual format that will create our way of working online, with the latest techniques that allow us to offer you high quality in all of the material that we provide you with.



Practicing Skills and Abilities

You will carry out activities to develop specific competencies and skills in each thematic field. Exercises and activities to acquire and develop the skills and abilities that a specialist needs to develop within the framework of the globalization we live in.



Interactive Summaries

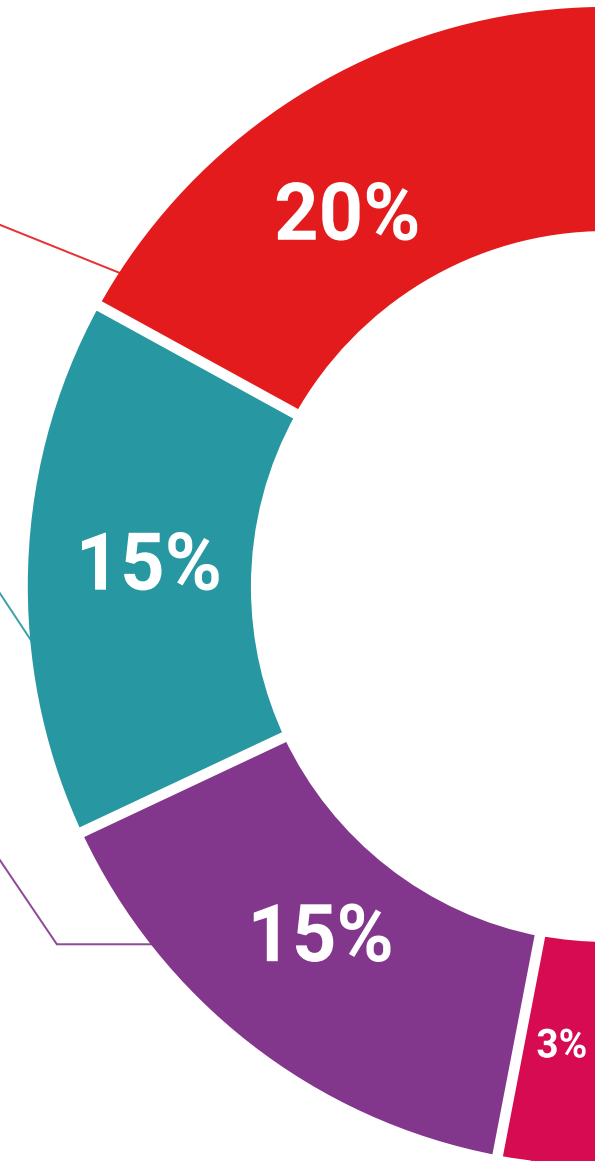
We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

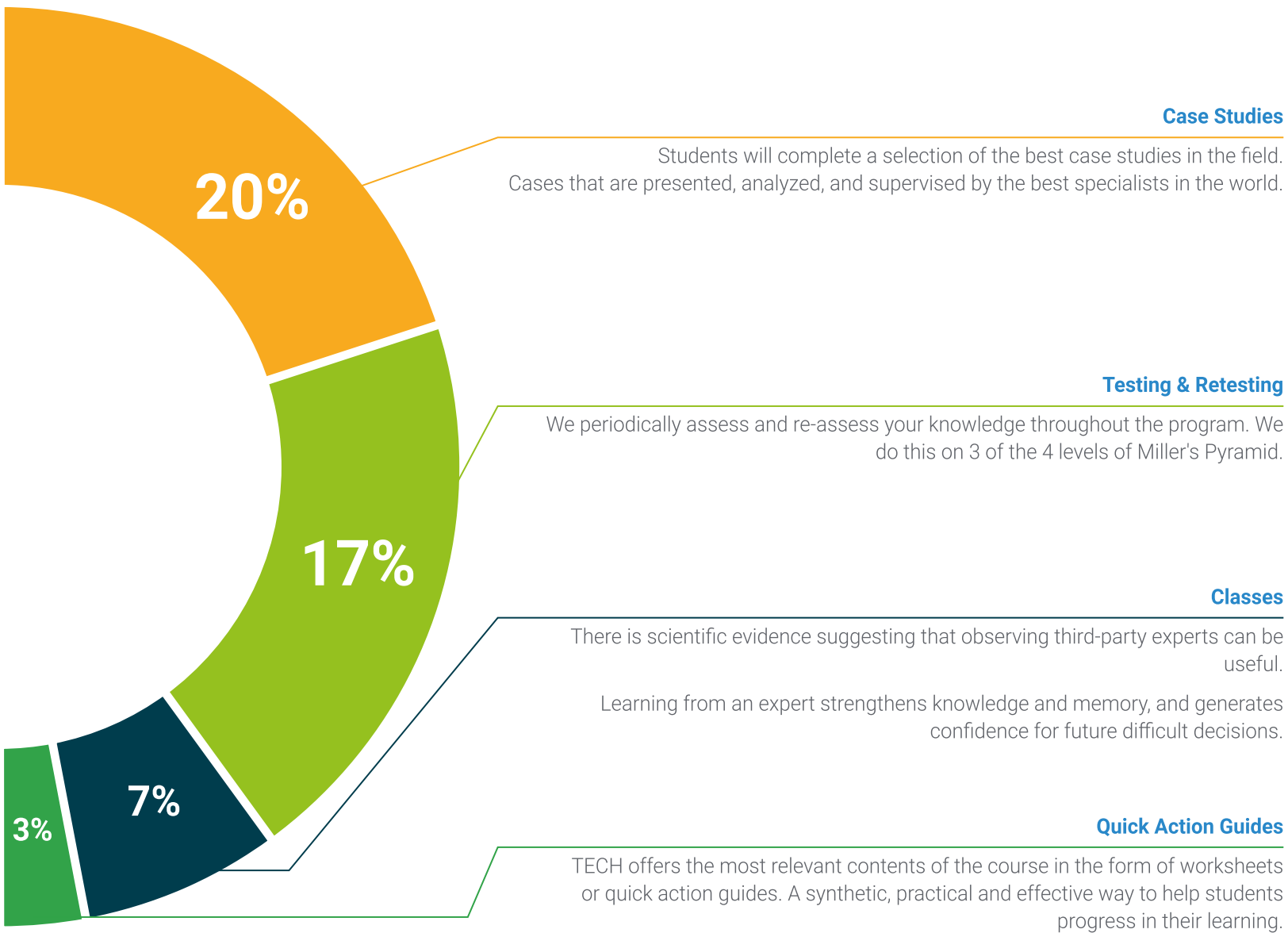
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



Additional Reading

Recent articles, consensus documents, international guides... In our virtual library you will have access to everything you need to complete your education.





05 Certificate

This Postgraduate Certificate in Acute Lymphoblastic Leukemia guarantees students, in addition to the most rigorous and up-to-date education, access to a diploma for the Postgraduate Certificate issued by TECH Global University.



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

This private qualification will allow you to obtain a diploma for the **Postgraduate Certificate in Acute Lymphoblastic Leukemia** 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** private qualification, 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 Acute Lymphoblastic Leukemia**

Modality: **online**

Duration: **6 weeks**

Accreditation: **6 ECTS**



future
health confidence people
education information tutors
guarantee accreditation teaching
institutions technology learning
community commitment
personalized service innovation
knowledge present
online training
development languages
virtual classroom



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