

# Postgraduate Certificate Circular Economy





## Postgraduate Certificate Circular Economy

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

Website: [www.techtute.com/us/engineering/postgraduate-certificate/circular-economy](http://www.techtute.com/us/engineering/postgraduate-certificate/circular-economy)

# Index

01

Introduction

---

*p. 4*

02

Objectives

---

*p. 8*

03

Course Management

---

*p. 12*

04

Structure and Content

---

*p. 16*

05

Methodology

---

*p. 20*

06

Certificate

---

*p. 28*

# 01

# Introduction

The impact of the Circular Economy on water and waste management makes it essential to know it in depth, as well as the existing tools to be applied and search for successful solutions in the market according to environmental and economic needs. Take this comprehensive training course and acquire the necessary knowledge to develop your profession with total rigor.





“

*A comprehensive and multidisciplinary training course that will allow you to excel in your career, following the latest advances in circular waste sustainability"*

In this course, students will be introduced to the principles and characteristics of the Circular Economy, learning about its advantages and its strategic vision. The efficient and sustainable use of water, both at source (rainwater and gray water) and at destination (irrigation water or process water) is a fundamental part of this training, which will also provide information on the key factors in determining the revaluation of waste and/or sub-processes, including cases of entrepreneurship in this field.

In this way, life cycle analysis and its instruments will be studied, as well as the different ecodesign methodologies (PILOT and PROMISE), in addition to examining the systems and processes involved in "zero discharge".

On the other hand, students will be given general information on green public procurement mechanisms and innovative public procurement. The course is completed with environmental accounting, defining the best available environmental technologies (BAT), the estimation of ecotaxes, the breakdown of the environmental account, as well as its environmental economic cost.

With the knowledge acquired from this training course, the student will obtain a strategic vision of the application of the Circular Economy in water and waste management, being able to apply the methodologies and tools that allow him/her to plan, search and measure actions of revalorization and minimization of waste in their products and/or processes.

It should be noted that as this is a 100% online course, the student is not conditioned by fixed schedules or the need to move to another physical location, but can access the contents at any time of the day, balancing their work or personal life with their academic life.

This **Postgraduate Certificate in Circular Economy** contains the most complete and up to date educational program on the market. The most important features of the program include:

- » The development of case studies presented by Circular Economy experts.
- » The graphic, schematic, and eminently practical contents with which they are created provide scientific and practical information on the 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 in Circular Economy.
- » Theoretical lessons, questions to the Postgraduate Diploma, debate forums on controversial topics, and individual reflection assignments.
- » Content that is accessible from any fixed or portable device with an Internet connection.

 *Don't miss the opportunity to take this Postgraduate Certificate in Circular Economy with us. It's the perfect opportunity to advance your career"*

“ *This course is the best investment you can make in selecting a refresher program to bring your Circular Economy knowledge up to date.* ”

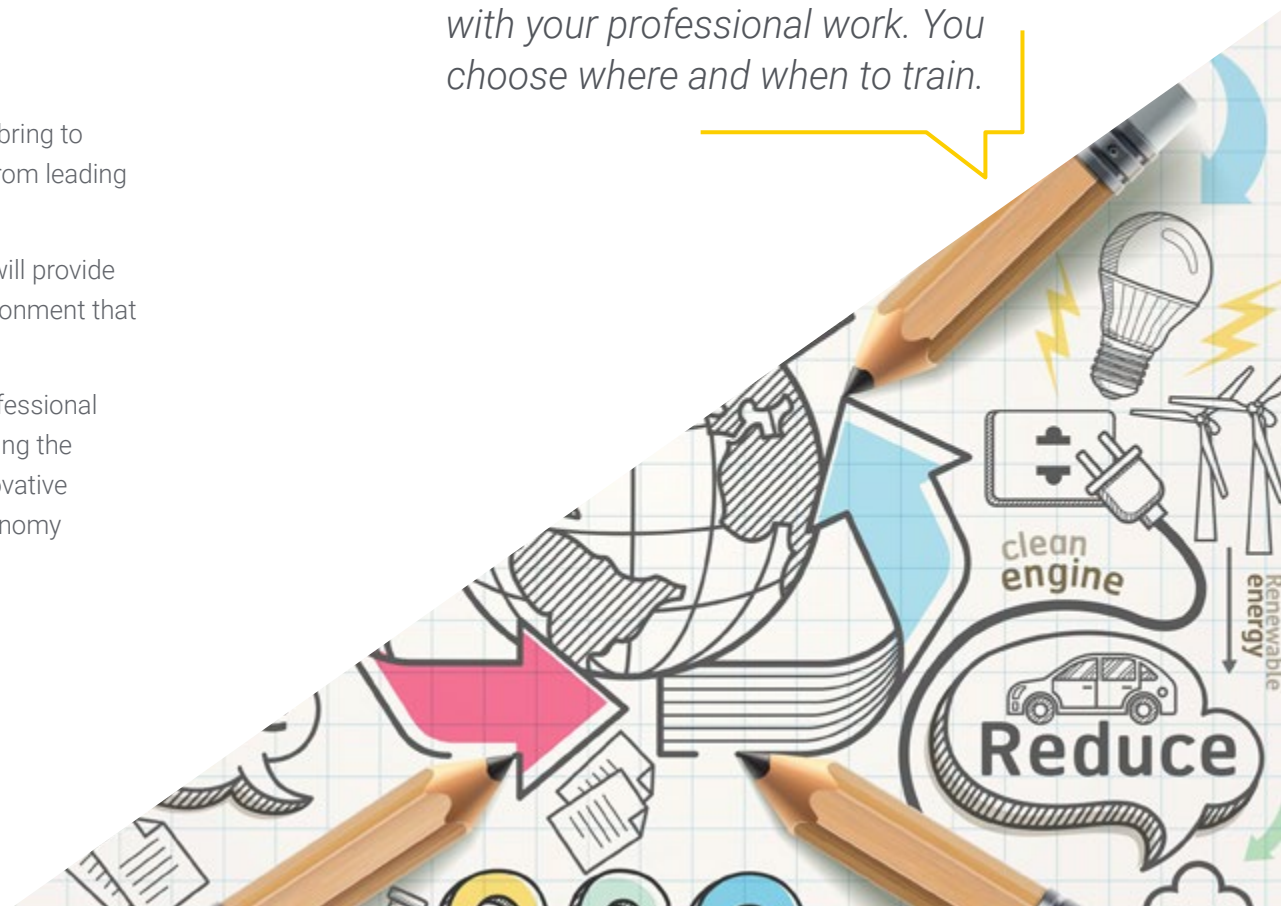
Among its faculty are professionals in the field of waste management, who bring to this training the experience of their work, as well as recognized specialists from leading companies and prestigious universities.

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 professional will be assisted by an innovative interactive video system created by renowned and experienced Circular Economy experts.

*This training has the best didactic material, which will allow you a contextual study that will facilitate your learning.*

*This 100% online course will allow you to combine your studies with your professional work. You choose where and when to train.*



# 02 Objectives

The Postgraduate Certificate in Circular Economy is oriented to facilitate the performance of the professional to acquire and know the main advances in this field.







“

*Our goal is to make you the best professional in your sector. And for this we have the best methodology and content"*



## General Objectives

---

- » Apply the Circular Economy in water and waste management systems to quantify the economic and environmental impact of water and waste reuse and revaluation improvements in the organization through appropriate tools and methodologies.





## Specific Objectives

---

- » Deepen understanding of the Circular Economy for its strategic implementation through proposals for the efficient and sustainable use of water and the revaluation of waste and by-products.
- » Measure the environmental impact of products and/or processes using life cycle analysis, eco-design and zero discharge tools to develop improvement plans capable of becoming benchmark success stories.
- » Knowing the criteria of green public procurement and the innovative public procurement tool to address and meet proposals from public administrations.
- » Establish environmental accounting to quantify and classify proposed improvements and environmental costs and integrate them into the organization's accounting system.



*Get an education at the world's leading private Spanish-speaking online university"*

03

# Course Management

In our university we have professionals specialized in each area of knowledge, who bring the experience of their work to our training courses.



**TAKE**

**MAKE**

**DISPOSE**



“

*Our university employs the best professionals in all areas who share their knowledge to help you"*

## International Guest Director

Considered as a true reference in the field of Waste Management for his sustainable initiatives, Frederick Jeske - Schoenhoven is a prestigious Environmental Engineer. In this sense, his philosophy has focused on the optimization of recycling processes, minimization of waste generation and promotion of environmentally friendly practices.

In this way, he has developed his professional work in recognized organizations such as the Treasury Department or the French Ministry of Economy, Finance and Industry, as well as the American World Bank. There, he has been in charge of multiple functions ranging from active portfolio management to the digital transformation of institutions. This has enabled companies to handle innovative technological tools such as Artificial Intelligence, Big Data and even the Internet of Things. As such, institutions have managed to set up advanced automation solutions to optimize their strategic processes considerably. In addition, it has created multiple online platforms that have facilitated the exchange and reuse of materials, thereby fostering a circular economy model.

On the other hand, he has balanced this facet with his work as a researcher. In this regard, he has published numerous articles in specialized journals on topics such as new recycling technologies, the most innovative techniques to improve the efficiency of waste management systems or cutting-edge strategies to ensure a sustainable approach in the industrial production chain. As a result, he has contributed to an increase in recycling rates in several communities.

In addition, he is a strong advocate for education and awareness of the treatment of waste from manufacturing activities. As such, he has spoken at numerous conferences globally to share his solid understanding of this field.



## Mr. Jeske-Schoenhoven, Frederick

---

- Director of Strategy and Sustainability at SUEZ in Paris, France
- Strategy and Marketing Director of Dormakaba in Zurich, Switzerland.
- Vice President of Strategy and Business Development at Siemens in Berlin, Germany
- Director of Communications, Siemens Healthineers, Germany
- Executive Director of the World Bank in Washington, United States
- Head of Management at the General Directorate of the Treasury, Government of France
- Advisory Counselor at the International Monetary Fund in Washington, United States
- Financial Consultant at the French Ministry of Economy, Finance and Industry of France
- Master's Degree in Administration and State Policy, École Nationale d'Administration, France
- Master's Degree in Management Sciences, HEC Paris
- Master's Degree in Political Science from Sciences Po
- Degree in Environmental Engineering from IEP Paris

“

*Thanks to TECH, you will be able to learn with the best professionals in the world”*

## Management



### Mr. Nieto-Sandoval González Nicolás, David

- ♦ Industrial Technical Engineer by the E.U.P. of Málaga.
- ♦ Industrial Engineer by E.T.S.I.I.
- ♦ Master's Degree in Integral Management of Quality, Environment and Health and Safety at Work from the University of the Balearic Islands
- ♦ Working for more than 11 years as a consultant in engineering, project management, energy saving and circularity in organizations, he has been working both for companies and on his own account for clients in the private agri-food industry and the institutional sector for more than 11 years.
- ♦ Professor certified by the EOI in the areas of Industry, Entrepreneurship, Human Resources, Energy, New Technologies, and Technological Innovation.
- ♦ Trainer of the European INDUCE project
- ♦ Trainer in institutions such as COGITI and COIIM.





04

# Structure and Content

The structure of the contents has been designed by the best professionals in the from the engineering sector, with extensive experience and recognized prestige in the profession



Paper





“

*We have the most complete and up-to-date academic program in the market. We strive for excellence and for you to achieve it too”*

## Module 1. The Circular Economy

- 1.1. Aspects and Characteristics of the Circular Economy
  - 1.1.1. Origin of the Circular Economy
  - 1.1.2. Principles of the Circular Economy
  - 1.1.3. Key Characteristics
- 1.2. Adaptation to Climate Change
  - 1.2.1. The Circular Economy as a Strategy
  - 1.2.2. Economic Advantages
  - 1.2.3. Social Advantages
  - 1.2.4. Business Advantages
  - 1.2.5. Environmental Advantages
- 1.3. Efficient and Sustainable Water Use
  - 1.3.1. Rainwater
  - 1.3.2. Gray Water
  - 1.3.3. Irrigation Water. Agriculture and Gardening
  - 1.3.4. Process Water. Agri-food Industry
- 1.4. Revaluation of Wastes and By-Products
  - 1.4.1. Water Footprint of Waste
  - 1.4.2. From Waste to By-product
  - 1.4.3. Classification According to Production Sector
  - 1.4.4. Revaluation Enterprises
- 1.5. Life Cycle Analysis
  - 1.5.1. Life Cycle Assessment (LCA)
  - 1.5.2. Stages
  - 1.5.3. Reference Standards
  - 1.5.4. Methodology
  - 1.5.5. Tools
- 1.6. Ecodesign
  - 1.6.1. Ecodesign Principles and Criteria
  - 1.6.2. Product Characteristics
  - 1.6.3. Methodologies in Ecodesign
  - 1.6.4. Eco-design Tools
  - 1.6.5. Success Stories
- 1.7. Zero Discharge
  - 1.7.1. Principles of Zero Discharge
  - 1.7.2. Benefits
  - 1.7.3. Systems and Processes
  - 1.7.4. Success Stories
- 1.8. Green Public Procurement
  - 1.8.1. Legislation
  - 1.8.2. Green Procurement Manual
  - 1.8.3. Guidelines for Public Procurement
  - 1.8.4. Public Procurement Plan 2018-2025
- 1.9. Innovative Public Procurement
  - 1.9.1. Types of Innovative Public Procurement
  - 1.9.2. Recruitment Process
  - 1.9.3. Design of Layouts
- 1.10. Environmental Accounting
  - 1.10.1. Best Available Environmental Technologies (BAT)
  - 1.10.2. Ecotaxes
  - 1.10.3. Green Account
  - 1.10.4. Environmental Cost



“

*This training will allow you to advance in your career comfortably”*

05

# Methodology

This training provides you with a different way of learning. Our methodology is developed through a cyclical learning mode: ***Re-learning***.

This system of teaching is used in the most prestigious medical schools in the world and has been and has been considered one of the most effective by leading publications such as the ***New England Journal of Medicine***.





“

*Discover Re-learning, 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 you a revolutionary approach to developing your skills and knowledge. Our goal is to strengthen your skills in a changing, competitive, and highly demanding environment.

“

*With TECH you can 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 Hazardous Waste course is an intensive program that 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 Global 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 business 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.

In a given situation, what would you do? This is the question that you are presented with in the case method, an action-oriented learning method. Throughout the course, you will be presented with multiple real cases. You will have to combine all your knowledge, and research, argue, and defend your ideas and decisions.

## Re-learning 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: Re-learning.

*In 2019 we obtained the best learning results of all Spanish-language online universities in the world.*

At TECH you will learn with an innovative methodology designed to train the managers of the future. This method, at the forefront of international teaching, is called Re-learning.

Our University is the only one in Spanish-speaking countries licensed to incorporate 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 Spanish online university indicators.



In our program, learning is not a linear process, but rather a spiral (we 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.

*Re-learning 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 to success.*

Based on the latest evidence in neuroscience, not only do we know how to organize information, ideas, images, memories, but we also know that the place and context where we have learned something is crucial for us to be able to remember it and store it in the hippocampus, and 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.



In this program you will have access to the best educational material, prepared with you 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 really 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.



### Classes

There is scientific evidence on the usefulness of third-party expert observation.

Learning from an expert strengthens knowledge and memory, and generates confidence in our difficult future decisions.



### Practising Skills and Abilities

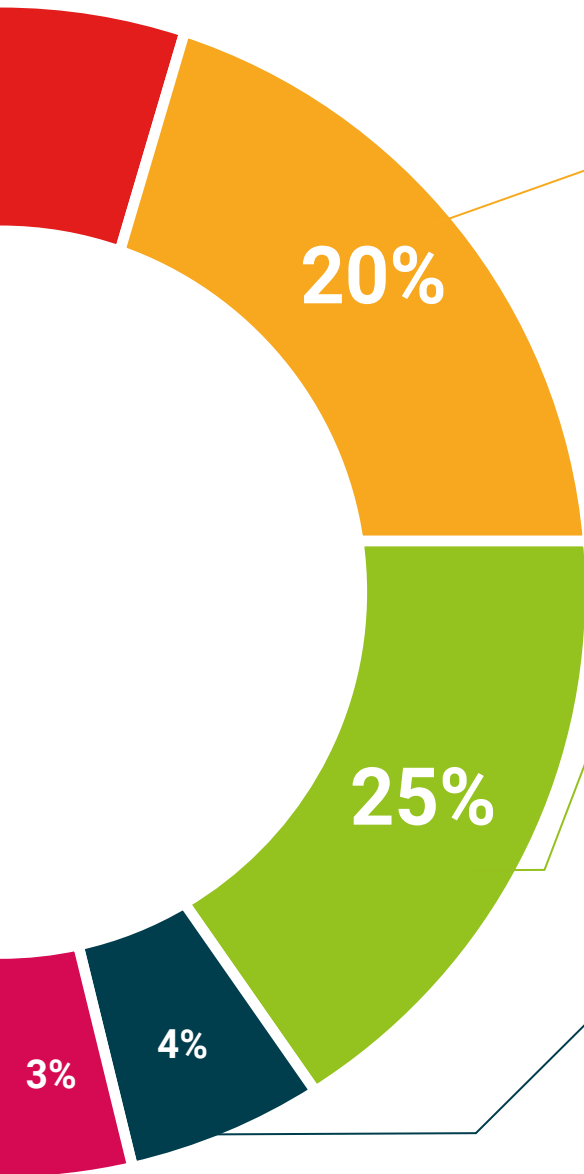
You will carry out activities to develop specific skills and abilities in each subject area. Exercises and activities to acquire and develop the skills and abilities that a specialist needs to develop in the context of the globalization we live in.



### Additional Reading

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





**Case Studies**

You 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 Latin America.



**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 unique multimedia content presentation training system was awarded by Microsoft as a "European Success Story"



**Testing & Re-Testing**

We periodically evaluate and re-evaluate your knowledge throughout the program. We do this on 3 of the 4 levels of Miller's Pyramid.



06

# Certificate

Through a different and stimulating learning experience, you will be able to acquire the necessary skills to take a big step in your training. An opportunity to progress, with the support and monitoring of a modern and specialized university, which will propel you to another professional level.



“

*Include in your training a Postgraduate Certificate in Circular Economy: a high added value qualification for any professional in this area"*

This program will allow you to obtain your **Postgraduate Certificate in Circular Economy** 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 Circular Economy**

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 quality

online training

development language

classroom

**tech** global  
university

Postgraduate  
Certificate  
Circular Economy

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

# Postgraduate Certificate Circular Economy

