

Advances in Chemical Engineering: Innovations and Applications

*Barcelona (Spain)*

*12 - 16 May 2025*

UK Training

**PARTNER**



# Advances in Chemical Engineering: Innovations and Applications

Code: OG28 From: 12 - 16 May 2025 City: Barcelona (Spain) Fees: 5100 Pound

## Introduction

This 5-day course offers a comprehensive exploration of the latest advancements in chemical engineering, focusing on emerging technologies, sustainable practices, and practical applications across various industries. Participants will engage with contemporary issues and gain innovative solutions, preparing them to tackle future challenges in the field.

## Objectives

By the end of the course, participants will be able to:

- Understand recent advancements in chemical engineering.
- Analyze the role of sustainability in chemical processes.
- Explore innovations in materials and processes.
- Evaluate the impact of digital technologies in chemical engineering.
- Develop strategies to implement advanced practices in their workplaces.

## Course Outline

### Day 1: Introduction to Current Trends in Chemical Engineering

- Overview of chemical engineering and its evolution.
- Key trends shaping the industry.
- Discussion of global challenges and opportunities.

### Day 2: Sustainable Practices in Chemical Engineering

- Principles of green chemistry and engineering.
- Case studies on sustainable processes.
- Strategies for reducing environmental impact.

### Day 3: Innovations in Materials Science

- Advanced materials and their applications.
- Nanotechnology and its impact on chemical engineering.
- Workshop: Designing innovative materials for specific applications.

### Day 4: Digital Transformation in Chemical Engineering

- The role of data analytics and machine learning.
- Applications of process simulation and optimization.
- Hands-on session with software tools.



## Day 5: Implementing Innovations in Practice

- Developing a framework for adopting new technologies.
- Best practices in the industry and success stories.



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