

## Certified Plant Engineer (CPE)

*Cairo (Egypt)*

*26 - 30 January 2025*

UK Training

# PARTNER



## Certified Plant Engineer (CPE)

Code: OG28 From: 26 - 30 January 2025 City: Cairo (Egypt) Fees: 3900 Pound

### Introduction

The Certified Plant Engineer CPE Advanced Course is designed to provide professionals in the field of plant engineering with the latest knowledge and skills required to excel in their roles. This comprehensive program aims to equip participants with advanced concepts and strategies in plant engineering, focusing on cutting-edge technologies and industry best practices. The course covers a wide range of topics to enhance participants' understanding and proficiency in managing and optimizing plant operations.

### Objectives

- Gain an in-depth understanding of advanced plant engineering principles and concepts.
- Explore the latest trends and developments in plant engineering technology.
- Develop advanced skills in plant asset management and maintenance optimization.
- Learn advanced strategies for energy efficiency and sustainability in plant operations.
- Enhance knowledge of safety regulations and risk management in industrial settings.
- Acquire advanced project management skills for plant engineering projects.
- Understand the role of data analytics and digital technologies in modern plant engineering.
- Gain insights into emerging technologies and innovations in the field of plant engineering.

### Course Outline

#### Day 1

##### Advanced Plant Engineering Concepts

- Overview of advanced plant engineering principles and methodologies
- Emerging trends and technologies in modern plant engineering
- Risk assessment and management in plant operations
- Plant asset management strategies and optimization

#### Day 2

##### Energy Efficiency and Sustainability in Plant Operations

- Advanced techniques for energy management and conservation
- Integration of renewable energy sources in plant operations
- Sustainable practices for water management and waste reduction
- Environmental regulations and compliance in plant engineering



### Day 3

#### Advanced Maintenance Strategies

- Reliability-centered maintenance RCM principles and practices
- Predictive and condition-based maintenance techniques
- Implementing advanced maintenance management systems
- Performance metrics and key performance indicators KPIs for maintenance optimization

### Day 4

#### Project Management in Plant Engineering

- Advanced project planning and scheduling techniques
- Risk analysis and mitigation in plant engineering projects
- Procurement and contract management in plant engineering
- Stakeholder management and communication strategies

### Day 5

#### Digitalization and Future Trends in Plant Engineering

- Role of data analytics and IoT in modern plant engineering
- Digital twins and virtual simulation in plant design and operations
- Emerging technologies in automation and robotics for plants
- Future trends and challenges in plant engineering

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