Certified Plant Engineer (CPE)

28 December 2026 – 1 January 2027
Düsseldorf (Germany)



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Ref: 3254219_303935 **Date:** 28 December 2026 – 1 January 2027 **Location:** Düsseldorf (Germany) **Fees:** 5900 GBP

Introduction

The Certified Plant Engineer CPE Advanced Course is a comprehensive training program designed to equip professionals in the field of plant engineering with the latest knowledge and skills necessary for excelling in their roles. Whether you are an aspiring plant engineer or looking to advance your expertise, this course covers power plant engineering basics, the latest innovations in plant engineering technology, and strategies for optimizing plant operations. By the end of the course, participants will be prepared to become Certified Plant Engineers CPE, equipped with modern tools and techniques to enhance plant efficiency and sustainability.

Course Objectives

This course aims to provide participants with:

- A deep understanding of advanced principles and concepts in plant engineering, with a focus on engineering plant technology.
- Exploration of the latest trends and developments in plant engineering and power plant technology.
- Development of advanced skills in plant asset management and maintenance optimization.
- Advanced strategies for improving energy efficiency and ensuring sustainability in plant operations.
- Knowledge of safety regulations and risk management practices in industrial settings.
- Project management skills for overseeing plant engineering projects and plant engineering teams.
- Insights into the role of data analytics and digital technologies like the Internet of Things IoT in modern plant engineering.

Course Outlines

Day 1: Advanced Plant Engineering Concepts

- Overview of advanced concepts in plant engineering and engineering plant technology.
- Emerging trends and innovations in power plant engineering.
- Risk assessment and management in plant operations.
- Plant asset management strategies and optimization techniques.



Day 2: Energy Efficiency and Sustainability in Plant Operations

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

Day 3: Advanced Maintenance Strategies

- Principles and practices of reliability-centered maintenance RCM.
- Techniques for predictive and condition-based maintenance.
- Implementing advanced maintenance management systems.
- Using key performance indicators KPIs to optimize maintenance strategies.

Day 4: Project Management in Plant Engineering

- Advanced techniques for planning and scheduling engineering projects.
- Risk analysis and mitigation strategies for plant engineering projects.
- Procurement and contract management in the plant engineering industry.
- Stakeholder management and effective communication strategies.

Day 5: Digitalization and Future Trends in Plant Engineering

- Role of data analytics and the Internet of Things IoT in plant engineering.
- Introduction to digital twins and virtual simulations in plant design and operations.
- Exploring emerging technologies in automation and robotics for plant operations.
- Identifying future challenges and opportunities in plant engineering.

Why Attend This Course: Wins & Losses!

- Gain Advanced Skills: Learn to optimize plant operations with the latest technologies in energy efficiency, plant asset management, and maintenance strategies.
- Explore Cutting-Edge Technologies: Get hands-on experience with digital technologies, including IoT and digital twins, that are reshaping the future of plant engineering.
- Certify Your Expertise: By completing this course, you will earn the prestigious CPE Certification, positioning you as a leader in the field of plant engineering.
- Stay Competitive: Stay ahead of industry trends and master the tools and strategies to manage plant operations effectively, making you indispensable to any organization.
- Learn from Industry Experts: Benefit from the insights and expertise of experienced trainers who will guide you through real-world challenges in plant engineering.



Conclusion

By the end of the Certified Plant Engineer CPE Advanced Course, participants will have honed their skills in advanced plant engineering, making them well-equipped to handle modern challenges in plant operations. Whether you are a seasoned plant engineer or new to the field, this course will prepare you to optimize plant performance, ensure sustainability, and implement cutting-edge technologies. With a focus on industry best practices and innovations in plant engineering technology, you will leave with a certification that sets you apart as a leader in the field.

Take the next step in your career by enrolling in this transformative course and become a certified plant engineer capable of managing complex, sustainable, and efficient plant operations.

