

Certified Plant Engineer (CPE)

Barcelona (Spain)

22 - 26 December 2025

UK Training

PARTNER



Certified Plant Engineer (CPE)

Code: OG28 From: 22 - 26 December 2025 City: Barcelona (Spain) Fees: 5100 Pound

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.



Blackbird Training Cities

Europe



Malaga (Spain)



Sarajevo (Bosnia and Herzegovina)



Oporto (Portugal)



Glasgow (Scotland)



Edinburgh (UK)



Oslo (Norway)



Annecy (France)



Bordeaux (France)



Copenhagen (Denmark)



Birmingham (UK)



Lyon (France)



Moscow (Russia)



Stockholm (Sweden)



Podgorica (Montenegro)



Batumi (Georgia)



London (UK)



Istanbul (Turkey)



Amsterdam



Düsseldorf (Germany)
(Switzerland)



Paris (France)



Athens (Greece)



Barcelona (Spain)



Munich (Germany)



Geneva



Prague (Czech)



Vienna (Austria)



Rome (Italy)



Brussels



Madrid (Spain)



Berlin (Germany)



Lisbon (Portugal)



Zurich



Manchester (UK)



Milan (Italy)



Blackbird Training Cities

USA & Canada



Los Angeles (USA)



Orlando, Florida (USA)



Online



Phoenix, Arizona (USA)



Houston, Texas (USA)



Boston, MA (USA)



Washington (USA)



Miami, Florida (USA)



New York City (USA)



Seattle, Washington (USA)



Washington DC (USA)



In House



Jersey, New Jersey (USA)



Toronto (Canada)

ASIA



Baku (Azerbaijan)
(Thailand)



Maldives (Maldives)



Doha (Qatar)



Manila (Philippines)



Bali (Indonesia)



Bangkok



Beijing (China)



Singapore (Singapore)



Sydney



Tokyo (Japan)



Jeddah (KSA)



Riyadh (KSA)



Melbourne (Australia)
Korea



Phuket (Thailand)



Dubai (UAE)



Kuala Lumpur (Malaysia)



Kuwait City (Kuwait)



Seoul (South)



Pulau Ujong (Singapore)



Irbid (Jordan)



Jakarta (Indonesia)



Amman (Jordan)



Beirut



Blackbird Training Cities

AFRICA



Kigali (Rwanda)



Cape Town (South Africa)



Accra (Ghana)



Lagos (Nigeria)



Marrakesh (Morocco)



Nairobi (Kenya)



Zanzibar (Tanzania)



Tangier (Morocco)



Cairo (Egypt)



Sharm El-Sheikh (Egypt)



Casablanca (Morocco)



Tunis (Tunisia)



Blackbird Training Clients



MANNAI Trading
Company WLL,
Qatar



Alumina Corporation
Guinea



Booking.com
Netherlands



Oxfam GB International
Organization,
Yemen



Capital Markets
Authority,
Kuwait



Waltersmith Petroman Oil Limited
Nigeria



Qatar National Bank
(QNB),
Qatar



Qatar Foundation,
Qatar



AFRICAN UNION ADVISORY
BOARD ON CORRUPTION,
Tanzania



KFAS
Kuwait



Reserve Bank of
Malawi,
Malawi



Central Bank of Nigeria
Nigeria



Ministry of Interior
Kingdom of Saudi Arabia
KSA



Mabruk Oil Company
Libya



Saudi Electricity
Company,
KSA



BADAN PENGELOLA
KEUANGAN Haji,
Indonesia



NATO
Italy



ENI CORPORATE
UNIVERSITY,
Italy



Gulf Bank
Kuwait



المؤسسة العامة للتأمينات الاجتماعية
General Organization for
Social Insurance
KSA



Defence Space Administration
Nigeria



National Industries
Group (Holding),
Kuwait



Hamad Medical
Corporation,
Qatar



USAID
Pakistan



STC Solutions,
KSA



North Oil company,



EKO Electricity



Oman Broadband



UNITED NATIONS
UN.



هيئة تنظيم الكهرباء - عمان
AUTHORITY FOR ELECTRICITY REGULATION, OMAN
Authority for

UK Training
PARTNER



Blackbird Training Categories

Management & Admin

Entertainment & Leisure
Professional Skills
Finance, Accounting, Budgeting
Media & Public Relations
Project Management
Human Resources
Audit & Quality Assurance
Marketing, Sales, Customer Service
Secretary & Admin
Supply Chain & Logistics
Management & Leadership
Agile and Elevation

Technical Courses

Artificial Intelligence (AI)
Hospital Management
Public Sector
Special Workshops
Oil & Gas Engineering
Telecom Engineering
IT & IT Engineering
Health & Safety
Law and Contract Management
Customs & Safety
Aviation
C-Suite Training



International House 185 Tower Bridge
Road London SE1 2UF United Kingdom



+44 7401 1773 35
+44 7480 775526



Sales@blackbird-training.com



www.blackbird-training.com

