

Process Plant Optimisation & Energy Conservation Course

11 – 15 January 2027
Amsterdam (Netherlands)

UK Traininig

PARTNER



Process Plant Optimisation & Energy Conservation Course

Ref: 322870_217106 **Date:** 11 – 15 January 2027 **Location:** Amsterdam (Netherlands) **Fees:** 5900 GBP

Course Description

This intensive 5-day course equips participants with advanced strategies for optimising process plant operations and implementing effective energy conservation measures. Attendees will learn to identify inefficiencies, apply cutting-edge technologies, and develop sustainable practices to enhance plant performance and reduce energy consumption. The course combines theoretical knowledge with practical applications, ensuring participants can immediately apply their learning to real-world industrial scenarios.

Learning Objectives

- Understand key principles of process plant optimisation and energy management
- Identify and evaluate energy-saving opportunities in industrial processes
- Apply advanced techniques for improving plant efficiency and reducing operational costs
- Develop strategies for implementing and maintaining energy conservation programs
- Analyse the impact of optimisation activities on plant integrity, safety, and profitability

Course Modules

Day 1: Fundamentals of Process Plant Optimisation

- Introduction to process plant optimisation and energy conservation
- Key drivers and potential benefits of optimisation
- Asset Integrity Management AIM and its role in optimisation
- Establishing Operating Windows OW for maximum throughput

Day 2: Energy Efficiency in Industrial Processes

- Energy use patterns in process industries
- Industrial energy management techniques and standards
- Best practices in process plant energy management
- Developing customized energy management programs

Day 3: Advanced Optimisation Techniques

- Process control basics and elements of plant optimisation
- Application of simulation technology to plant optimisation
- Heat integration and Pinch technology
- Optimisation of heat exchanger networks

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A graphic of a chessboard with several chess pieces. A gold king piece is prominent in the foreground, with a silver pawn and a black pawn nearby. The board is white and grey checkered, and the background is a light blue gradient with concentric circles.

Day 4: Identifying and Implementing Energy Conservation Opportunities

- Benchmarking energy intensity and usage
- Energy conservation in plant processes and mechanical systems
- Optimisation of electrical power systems
- Technical and economic evaluation of energy-saving opportunities

Day 5: Sustainable Plant Optimisation Strategies

- Relating energy efficiency to business outcomes
- Impact of optimisation on plant integrity and safety
- Managing technological modifications and upgrades
- Human factors in plant optimisation and energy conservation

Practical Wins for Participants

- Ability to conduct comprehensive energy audits and identify key areas for improvement
- Skills to develop and implement cost-effective energy conservation programs
- Techniques to optimize process control and heat integration for significant energy savings
- Strategies to align plant optimisation efforts with overall business objectives and sustainability goals

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A graphic illustration of a chessboard with several chess pieces. A large gold king piece is prominent in the foreground, with a silver pawn and a silver knight nearby. The board is checkered, and there are concentric circles in the background.