



*Training Course:
Process Plant Optimisation & Energy
Conservation*

2 - 6 August 2026

Cairo (Egypt)

Holiday Inn & Suites Cairo Maadi, an IHG Hotel

Training Course: Process Plant Optimisation & Energy Conservation

Training Course code: EN6043 From: 2 - 6 August 2026 Venue: Cairo (Egypt) - Holiday Inn & Suites Cairo Maadi, an IHG Hotel Training Course Fees: 4410 € Euro

Introduction

Process plants operate in energy-intensive environments where optimization and energy conservation are essential for improving efficiency, reducing costs, and minimizing environmental impact. By applying systematic optimization techniques and energy management practices, organizations can enhance performance while maintaining safety and product quality.

This program, designed by Global Horizon Training Center, equips participants with the knowledge and practical tools required to optimize process plant operations and implement effective energy conservation strategies.

Course Objectives

By the end of this program, participants will be able to:

- Understand process optimization principles and methodologies
- Analyze plant performance and identify inefficiencies
- Apply energy conservation techniques in process industries
- Optimize heat integration and utility systems
- Evaluate energy consumption and cost-saving opportunities
- Implement monitoring and performance improvement strategies
- Integrate optimization with operational and maintenance practices
- Support sustainable and energy-efficient operations

Target Audience

This program is designed for:

- Process and Chemical Engineers
- Plant and Operations Engineers
- Energy and Facility Managers
- Maintenance and Reliability Engineers
- Oil & Gas and Industrial Professionals
- Technical staff involved in process optimization

Outline

Day 1: Fundamentals of Process Optimization

- Overview of process plant operations
- Principles of process optimization
- Key performance indicators KPIs
- Identifying inefficiencies
- Safety considerations

Day 2: Energy Analysis and Conservation Techniques

- Energy consumption patterns
- Energy audit fundamentals
- Identifying energy losses
- Conservation techniques in process systems
- Utility optimization

Day 3: Heat Integration and Process Efficiency

- Heat exchanger networks
- Pinch analysis basics
- Waste heat recovery
- Thermal efficiency improvement
- Energy balance analysis

Day 4: Advanced Optimization Techniques

- Data-driven optimization
- Process control and automation
- Performance monitoring systems
- Continuous improvement methods
- Integration with digital tools

Day 5: Implementation, Monitoring, and Case Studies

- Developing optimization strategies
- Performance tracking and reporting
- Cost-benefit analysis
- Best practices in energy management
- Case studies and real-world applications

Registration form on the Training Course: Process Plant Optimisation & Energy Conservation

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