



*Training Course:  
Process Plant Optimisation & Energy  
Conservation*

*7 - 11 February 2027  
Cairo (Egypt)*

## Training Course: Process Plant Optimisation & Energy Conservation

Training Course code: EN6043 From: 7 - 11 February 2027 Venue: Cairo (Egypt) - 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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Complete & Mail or fax to Global Horizon Training Center (GHTC) at the address given below

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Full Name (Mr / Ms / Dr / Eng): .....  
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### Company Information

Company Name: .....  
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### Person Responsible for Training and Development

Full Name (Mr / Ms / Dr / Eng): .....  
Position: .....  
Telephone / Mobile: .....  
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### Payment Method

- ☐ Please find enclosed a cheque made payable to Global Horizon
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### Easy Ways To Register

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