Process Plant Optimization Technology and Continual Improvement

Venue Information

Venue: London UK

Place:

Start Date: 2026-10-27

End Date: 2026-10-31

Course Details

Net Fee: £4750.00

Duration: 1 week

Category ID: METC

Course Code: METC-12

Syllabus

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Introduction

In today's industrial landscape, process plant optimization is crucial for maintaining profitability. Effective management of maintenance operations and optimization of equipment reliability and availability are essential for minimizing production costs and interruptions. This courses delves into the various facets of process plant integrity, laying the groundwork for sustainable profitability and optimization.

Objectives

1. Understand the key elements of plant optimization and how to realize potential benefits.
2. Enhance business acumen to contribute more effectively to sustainable plant profitability.
3. Equip maintenance professionals with methodologies for informed decision-making.

Day 1 - Overview of Optimization Technologies

- Understanding optimization technologies for process plants
- Elements and constraints in optimization
- Correlation between process optimization and control
- Workshop: Examples and solutions

Day 2 - Reliability, Availability, and Effectiveness

- Relationship between reliability, availability, and optimization
- Improving plant reliability and availability through maintenance optimization
- Analysis of equipment effectiveness
- Workshop: Examples and solutions

Day 3 - Best Practices for Energy Consumption

- Strategies for reducing energy consumption
- World standards and benchmarking guidelines
- Best practices in energy management
- Workshop: Examples and solutions

Day 4 - Maintenance Management System

- Optimizing piping systems, pumps, compressors, and fans
- Maintenance management system optimization
- Predictive maintenance for spare parts management
- Workshop: Examples and solutions

Day 5 - Minimization of Equipment Failure

- Risk-based inspection and equipment failure minimization
- Fitness for service analysis and remaining life estimation
- Plant economy optimization through planned equipment replacement
- Summary and courses review

Join us to master process plant optimization techniques and contribute to sustainable profitability in your industry.