

Process Plant Start-Up, Commissioning & Troubleshooting

Oil & Gas Engineering
Dubai (UAE)
21 - 25 Sep 2025

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A large, detailed image of chess pieces on a checkered board. In the foreground, a gold king piece stands prominently on a light square. To its left, a silver pawn is on a dark square. Further back, another silver pawn is visible on a light square. The background features concentric circles and a checkered pattern, suggesting a strategic or competitive theme.

Process Plant Start-Up, Commissioning & Troubleshooting

Ref: 3277_128174 **Date:** 21 - 25 Sep 2025 **Location:** Dubai (UAE) **Fees:** 3900 **Euro**

Course Description

This comprehensive 5-day course covers essential aspects of process plant start-up, commissioning, and troubleshooting. Participants will learn strategies for efficient plant operations, from initial start-up to ongoing maintenance. The course combines theoretical knowledge with practical applications to enhance problem-solving skills and operational efficiency.

Learning Objectives

- Understand the critical stages of process plant start-up and commissioning
- Develop effective troubleshooting techniques for common plant issues
- Learn to optimize plant performance through systematic problem-solving
- Gain insights into risk management and safety procedures during start-up and operations
- Master the use of advanced tools and technologies for plant monitoring and control

Course Modules

Day 1: Introduction to Process Plant Operations

- Overview of process plant systems and components
- Pre-commissioning activities and checklists
- Safety considerations in plant start-up
- Introduction to commissioning documentation

Day 2: Start-Up Procedures and Best Practices

- Step-by-step plant start-up methodology
- Critical parameters monitoring during start-up
- Common start-up challenges and solutions
- Case studies of successful plant start-ups

Day 3: Commissioning Techniques and Strategies

- Mechanical completion and integrity checking
- Instrumentation and control system commissioning
- Process system commissioning
- Performance testing and acceptance criteria

Day 4: Troubleshooting Methodologies

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- Systematic approach to problem identification
- Root cause analysis techniques
- Advanced diagnostic tools and their applications
- Developing effective troubleshooting procedures

Day 5: Optimization and Continuous Improvement

- Key performance indicators for process plants
- Strategies for minimizing downtime and maximizing efficiency
- Implementing preventive maintenance programs
- Future trends in plant operations and automation

Practical Wins for Participants

- Ability to lead and manage plant start-up and commissioning projects effectively
- Enhanced troubleshooting skills to quickly identify and resolve operational issues
- Improved understanding of plant optimization techniques for increased productivity
- Development of a comprehensive toolkit for ongoing plant maintenance and improvement

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