

# Process Plant Start-Up, Commissioning & Troubleshooting

Oil & Gas Engineering  
Toronto (Canada)  
04 - 08 Aug 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 radiating from behind the king piece, creating a sense of depth and focus.

## Process Plant Start-Up, Commissioning & Troubleshooting

**Ref:** 3277\_137874 **Date:** 04 - 08 Aug 2025 **Location:** Toronto (Canada) **Fees:** 4700 **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

A graphic of a chessboard with several chess pieces (king, queen, rook, knight, and pawns) in gold and silver. The text 'UK Training PARTNER' is overlaid on the board.

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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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[www.blackbird-training.com](http://www.blackbird-training.com)



[training@blackbird-training.com](mailto:training@blackbird-training.com)



+44 7480 775526 / +44 7401 177335