

Reciprocating & Screw Compressors Operation Mastery Course

Oil & Gas Engineering
Cape Town (South Africa)
25 - 29 Aug 2025

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Reciprocating & Screw Compressors Operation Mastery Course

Ref: 321556_140980 **Date:** 25 - 29 Aug 2025 **Location:** Cape Town (South Africa) **Fees:** 3300 Euro

Course Description

This intensive 5-day course provides a comprehensive understanding of reciprocating and screw compressors used in industrial applications. Participants will learn the working principles, operation, maintenance, and optimization techniques for both compressor types. The course combines theoretical knowledge with practical hands-on exercises to ensure a well-rounded learning experience.

Learning Objectives

- Understand the working principles of reciprocating and screw compressors
- Master operation and maintenance procedures for both compressor types
- Learn to optimize compressor efficiency and performance
- Develop troubleshooting skills for common compressor issues
- Gain practical experience through hands-on exercises and simulations

Course Modules

Day 1: Introduction to Compressor Technology

- Overview of compression technologies
- Reciprocating compressor basics
- Screw compressor fundamentals
- Comparison of reciprocating and screw compressors

Day 2: Reciprocating Compressor Deep Dive

- Working principle and components
- Operation and control systems
- Maintenance procedures
- Performance optimization techniques

Day 3: Screw Compressor In-depth Study

- Screw compressor design and operation
- Lubrication and cooling systems
- Maintenance best practices
- Efficiency improvement strategies

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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Day 4: Advanced Topics and Troubleshooting

- Energy efficiency in compressor systems
- Common faults and diagnostics
- Troubleshooting techniques
- Case studies and problem-solving exercises

Day 5: Practical Applications and Future Trends

- Industry-specific applications
- Compressor selection criteria
- Emerging technologies and trends
- Hands-on exercises and simulations

Practical Wins for Participants

- Ability to optimize compressor performance, leading to energy savings
- Enhanced troubleshooting skills, reducing downtime in industrial operations
- Improved maintenance practices, extending equipment lifespan
- Confidence in selecting and operating the right compressor for specific applications

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