

Reciprocating & Screw Compressors Operation Mastery Course

28 December 2026 – 1 January 2027
Amsterdam (Netherlands)

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Why This Course

Reciprocating and screw compressors play a critical role in industrial operations, from petrochemical plants to manufacturing facilities. Their performance directly impacts productivity, energy consumption, and operational reliability. Understanding how to operate, maintain, and optimize these systems is essential for minimizing downtime and maximizing efficiency.

This intensive 5-day program provides engineers, technicians, and maintenance professionals with in-depth technical knowledge and practical skills to manage compressor systems effectively. Through technical discussions, real-world examples, and hands-on exercises, participants will gain the expertise required to ensure safe, efficient, and reliable compressor operation.

What You'll Learn and Practice

By attending this course, you will:

- Understand the operating principles of reciprocating and screw compressors.
- Operate and maintain both compressor types according to best practices.
- Improve system efficiency and reduce energy consumption.
- Diagnose and resolve common operational faults.
- Apply practical troubleshooting and performance optimization techniques.

The Program Flow

Day 1: Introduction to Compressor Technology

- Overview of industrial compression technologies
- Fundamentals of reciprocating compressors
- Fundamentals of screw compressors
- Comparative analysis: advantages, limitations, and applications

Day 2: Reciprocating Compressor Deep Dive

- Working principles and key components
- Operation, control systems, and performance parameters
- Preventive and corrective maintenance procedures
- Techniques for performance optimization and reliability improvement

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A graphic of a chessboard with several chess pieces (a king, a queen, a rook, and a pawn) positioned on it. The board is white and black, and the pieces are gold and silver.

Day 3: Screw Compressor In-Depth Study

- Screw compressor design and operating characteristics
- Lubrication, sealing, and cooling systems
- Maintenance strategies and inspection procedures
- Methods to enhance efficiency and extend service life

Day 4: Advanced Topics and Troubleshooting

- Energy efficiency and system optimization
- Common mechanical and operational faults
- Diagnostic tools and troubleshooting techniques
- Case studies and structured problem-solving exercises

Day 5: Practical Applications and Future Trends

- Compressor applications across various industries
- Equipment selection criteria based on operational needs
- Emerging technologies and innovation in compressor systems
- Hands-on simulations and applied exercises

Individual Impact

- Improved technical confidence in operating and maintaining compressors.
- Stronger troubleshooting capabilities to reduce downtime.
- Enhanced understanding of energy efficiency and cost optimization.
- Practical skills applicable immediately in industrial environments.

Organizational Impact

- Reduced unplanned shutdowns and maintenance costs.
- Improved equipment lifespan and operational reliability.
- Lower energy consumption through optimized compressor performance.
- Better decision-making when selecting and upgrading compressor systems.

Training Methodology

- Technical presentations supported by real industrial examples.
- Hands-on exercises and troubleshooting simulations.
- Group discussions focused on operational challenges.
- Practical case studies reflecting real compressor failures and solutions.

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Beyond the Course

Participants will leave ready to:

- Operate reciprocating and screw compressors safely and efficiently.
- Implement structured maintenance and reliability practices.
- Diagnose and resolve operational issues quickly and effectively.
- Optimize compressor systems to improve performance and reduce costs.

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