



Consulting and Training | Reach New Heights

Course Name

Compressors Operation, Maintenance & Troubleshooting

Sector Name

Mechanical Engineering

Document Type

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Compressors Operation, Maintenance & Troubleshooting

Course Introduction

Compressors are a major capital cost item, a key reliability problem and consume huge amounts of energy. For most companies the costs of owning and running compressors are much higher than they should be.

A shortage in general knowledge of how to apply, specify, install and operate compressors is the major reason for these high costs. This training course is designed to address this problem.

Our Total compressor course is an in depth look at common compressors applications, including selection, operation, troubleshooting, and maintenance. Individuals in the compressors and piping system industries will find this to be a valuable course for learning the importance of proper compressors operation and typical behavior in application.

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Compressors Operation, Maintenance & Troubleshooting

Target Audience

This course is designed for Plant Operation and Maintenance Engineers and Highly Qualified Operators and Technicians, whose work is related to operating and maintaining Compressors.

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Learning Objectives

Upon completion of this course, participants will have gained a thorough understanding of the various centrifugal and reciprocating compressors configurations available to virtually every industrial user, including mechanical design features, sizing and application criteria, maintainability, reliability, and troubleshooting issues. Participants will learn simple techniques and shortcut methods of machinery selection, which can take the place of tedious hand calculations and will serve as a rapid means to determine the sensitivity or influence of parameter changes on equipment performance.

Participants will be able to determine the most appropriate and efficient matching of a compressor. Participants will also acquire knowledge of operating and maintenance issues by getting to know mechanical design, machinery components, as well as proven approaches to monitoring, troubleshooting, and maintenance of compressor installations.

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Course Outline

✓ **01 DAY ONE**

Module (01) Compressors Introduction

- ✓ Compressors function and application
- ✓ Compressors classification
- ✓ Positive displacement compressors
- ✓ Dynamic compressors
- ✓ Compressor selection chart

Module (02) centrifugal compressor classification

- ✓ Centrifugal compressor selection charts
- ✓ Compressor main components and function
- ✓ Centrifugal compressor classifications
- ✓ Types of impellers
- ✓ Centrifugal compressor arrangements
- ✓ Compressor construction components

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Course Outline

✓ 02 DAY TWO

Module (03) centrifugal compressor operation and performance

- ✓ Compressor chart
- ✓ Surge Phenomena Introduction
- ✓ Compressor Protection & Anti-Surge Control
- ✓ Balancing drum function
- ✓ Startup procedure and shutdown

Module (04) compressor auxiliary

- ✓ Compressor bearings
- ✓ Lubrication Circuit
- ✓ Dry Gas Seal Fundamentals
- ✓ Seal gas filtration.
- ✓ Protection systems

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Course Outline

✓ **03 DAY THREE**

Module (05) positive displacement compressors

- ✓ Operation Fundamentals
- ✓ Reciprocating compressor
- ✓ Lobe compressor
- ✓ Sliding Vane Compressor
- ✓ Screw compressor

Module (06) dry gas seal

- ✓ Sealing Technology Introduction
- ✓ Shaft Seal Classification
- ✓ Shaft-mounted and cartridge seal types
- ✓ Seal arrangement
- ✓ Seal flushing plans

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Course Outline

✓ **04 DAY FOUR**

Module (07) Compressor Operation

- ✓ Pre-Startup Checks
- ✓ Start-up Procedures
- ✓ Normal Operation Conditions
- ✓ Shutdown Procedures

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Course Outline

✓ **05 DAY FIVE**

Module (08) Compressor Troubleshooting

- ✓ Centrifugal Compressors Troubleshooting
- ✓ Reciprocating Compressors Troubleshooting
- ✓ Rotary Compressors Troubleshooting
- ✓ Auxiliary System Troubleshooting

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
July 5, 2027	July 9, 2027	5 days	5950.00 \$	Switzerland , Zurich
Dec. 28, 2026	Jan. 1, 2027	5 days	4250.00 \$	UAE , Abu Dhabi
Jan. 31, 2027	Feb. 4, 2027	5 days	4250.00 \$	KSA , Riyadh
Oct. 5, 2026	Oct. 9, 2026	5 days	4250.00 \$	UAE , Dubai

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