

Compressors: Operation, Maintenance & Troubleshooting



A gas compressor is a mechanical device that increases the pressure of a gas by reducing its volume. Compressors increase the pressure on a fluid and can transport the fluid through a pipe. As gases are compressible, the compressor also reduces the volume of a gas.

Objectives:

Upon completion of the unit, the trainee will be able to:

- Describe the functions of a compressor
- Name the two classifications of compressors
- Describe the working principle of a reciprocating compressor and its main components and their function
- Identify various types of reciprocating compressors
- Name various types of reciprocating positive displacement compressors and describe how they work
- Identify the components of each type of reciprocating positive displacement compressor and their functions
- Name various types of rotary positive displacement compressors and describe how they work
- Identify the components of each type of rotary positive displacement compressor and their functions
- Describe the basic operating principle of dynamic compressors.
- Describe the function and components of dynamic compressors.
- Identify the components of centrifugal compressors and their functions
- Identify the components of axial flow compressors and their functions
- Explain the function of an intercooler and an after-cooler
- Select the appropriate compressor driver

Designed for:

New engineers, senior engineers, asset management team members, design, operations and maintenance personnel who are or will be responsible for the selection, sizing, specification, installation, testing, operation and maintenance of compressor stations. Also for the experienced professionals who want to review or broaden their understanding of compressors and drivers.

Course Certificate:

MSTC certificate will be issued to all attendees completing minimum of 80% of the total tuition hours of the course.

Course Duration:

The training course duration is **5 Days**.

Training Methodology:

1. Lecture Topics and Handouts, Power Point Presentation for each session.
2. Expert tutor input using power points.
3. Delegate discussion and involvement.
4. Case studies, success examples & class room exercises.
5. Supportive comprehensive course manual enabling practical application and reinforcement.
6. Workshops Topics and Handouts, Power Point Presentation for each session.

INTERNATIONAL SPEAKERS:

Delivering information through knowledge & experience obtained by renowned international speakers is one of the effective tools adopted by **MSTC**.

ON SITE TRAINING:

- ✓ Customize the training program to your workplace.
- ✓ Conduct the training program when & where you need it.
- ✓ Save more than 50% by conducting **MSTC** training workshop at your premises.

To request full detailed outlines, instructor's profile or any information about registration, please don't hesitate to contact us at:

P.O. Box 3808, Al-Khobar 31952, Kingdom of Saudi Arabia

Tel: +966 (3) 865-6992, Fax: +966 (3) 865-6922,

E-mail: info@mstcme.com / mohammed@mstcme.com / training@mstcme.com

