Best Technology Soultions **(BTS)**

Training Program

Compressor Systems, Mechanical Design And Specification

Training Program

Introduction:

This five-day foundation level course is for engineers and technicians seeking an in-depth understanding of centrifugal, reciprocating, and screw compressors. This course provides basic knowledge of compressor types and associated auxiliary systems, mechanical design of equipment, operating and performance characteristics, control and monitoring systems, maintenance practices, and codes and standards.

Who Should Attend?

Mechanical engineers, facilities engineers, plant engineers, pipeline engineers, and technicians who need an in-depth understanding of the different types of compressors

Course Objectives:

By the end of this course, participants will know

- How to apply thermodynamics to compressor performance and operating characteristics
- How to size, specify, and select compressors and auxiliary systems
- About series and parallel operation of compressors

- How to integrate compressor systems into process facilities used in the oil and gas industry
- How to use state of the art monitor and control devices in the operation, maintenance, and troubleshooting of compression systems
- How to apply maintenance practices to improved compressor reliability
- About shop and field performance testing

Course Outline:

- Selection of dynamic and positive displacement compressors
- Compressor thermodynamics and operating characteristics
- Performance curves and off design evaluations
- Key compressor components and other auxiliary systems
- Equipment specifications
- Compressor controls and monitoring devices
- Driver and gear involvement
- Installation, operation, maintenance practices, and troubleshooting