



# THE CHEMICAL ENGINEERING MAJOR

## Overview of Pumps & Compressors in Oil & Gas Facilities

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# Overview of Pumps & Compressors in Oil & Gas Facilities

## Introduction:

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This is an intensive, five day foundation level course that provides a comprehensive review of pump and compressor equipment used in the upstream and midstream sectors of the oil and gas business. Emphasis is on applications, design, selection, installation, operation, and maintenance of such equipment.

## Who Should Attend?

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Mechanical engineers, process engineers, facilities engineers, plant engineers, pipeline engineers, technicians, and operators who desire a general knowledge of pumps and compressors in oil and gas facilities

## Course Objectives:

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By the end of this course participants will know

- How to select, size, and specify common pump and compressor equipment used in the oil and gas industry
- About integrating pump and compressor equipment with piping and other systems

- About identifying physical principles and forces that occur in rotating equipment, focusing on pumps and compressors
- About using operating and troubleshooting techniques for pumps and compressors
- About pump hydraulics and compressor thermodynamics

## **Course Outline:**

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- Types and applications of pumps and compressors
- Centrifugal pumps
- Reciprocating pumps
- Rotating pumps
- Pump selection and application
- Thermodynamics of compression
- Centrifugal compressors
- Reciprocating compressors
- Rotary screw compressors
- Pump and compressor control methods
- Pump installation, operation, and maintenance considerations
- Compressor installation, operation and maintenance considerations
- Auxiliary systems seal gas, and monitoring instruments