

# Pumps & Compressors in Oil & Gas

**TM186** 

#### Course Overview:

This is an intensive 5-day course providing a comprehensive overview of pumps and compressor systems. The focus is on equipment selection; type, unit, and station configuration; and integration of these units in the process scheme in upstream and midstream oil and gas facilities.

## **Course Objective:**

- -Selecting the appropriate integrated pump and compressors units (drivers, pumps, compressors, and auxiliary systems)
- -Evaluating pump and compressor units and their drivers in multiple train configurations, parallel and series
- -Identifying the key local and remote control elements of pumps and compressors as well as their drivers
- -Defining the major life-cycle events, such as changes in flows, fluid composition, and operating conditions that can affect equipment selection and operating
- -Assessing the key pump hydraulics and compressor thermodynamics, and their effect on selection and operations
- -Identifying significant operating conditioning monitoring parameters and troubleshooting techniques

#### **Course Outline:**

- -Types of pumps and compressors
- -Types of drivers, and their common applications and range of operations
- -Evaluation and selection of pumps and compressors
- -Unit and station configuration
- -Integration with upstream and downstream process equipment
- -Key auxiliary systems including heat exchangers, lube and seal systems, and fuel/power systems
- -Installation, operating, troubleshooting, and maintenance considerations

#### Who Should Attend:

Senior technicians, and system operators, operating, and maintaining pump and compressor systems in oil and gas facilities.

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## Training Language:

EN / AR

### **Training Methodology:**

- -Presentation & Slides
- -Audio Visual Aids
- -Interactive Discussion
- -Participatory Exercise -Action Learning
- -Class Activities
- -Case Studies
- -Workshops
- -Simulation

