



Natural Gas Compression Certificate

Program Description: The Natural Gas Compression program is designed to provide technically oriented entry-level students with the basic knowledge of gas compression equipment, and the skills required to efficiently and safely maintain, troubleshoot, and operate compression packages in their areas of responsibility. This program is designed to be completed over a six month period.

Topics Covered:

- Basic math for natural gas compression workers
- Basic communication for natural gas compression workers—oral and written
- Human relations/teamwork
- Basic computer skills including remote interfacing with equipment
- Overview of the oil and gas industry
- Safety training including:
 - Safeland
 - Hazwoper
 - Confined space
 - First aid/CPR
 - H_2S
- Basic electrical/electricity for natural gas compression including electric motor basics
- Natural gas compression basics
- Introduction to natural gas engines including a discussion of exhaust emissions – air-fuel control, catalyst maintenance, etc.
- Natural gas compression theory
- Installation and operation of natural gas compression systems including issues of alignment
- Natural gas compression preventive maintenance oil changes, filter changes, proper disposal of fluids, coolant changes, belts, spark plugs, cleanliness, safety, pressure release/blow down, etc.
- Troubleshooting natural gas compression systems
- Natural gas compression instrumentation and controls
- Natural gas compression coop experience