

# COMPRESSORS: ANCILLARY EQUIPMENT

*eLearning courses designed to increase productivity and profits*

**Learning made Simple, Visual, and Interactive**



In this course, learners are presented with the types of pollutants removed by the ancillary equipment during the purification stages, the lower-level purification equipment, the higher-level purification equipment, and the compressed air quality standards that drive ancillary equipment selection based on the end-use application of the compressed air. Learners who are compressed air system designers, compressed air system installers, and compressed air end users will find value in this course.

**Credit Hours 3**

## Learning Objectives

- Understand the types of pollutants found within compressed air.
- Identify the lower-level purification equipment and the purpose of each.
- Recognize the higher-level purification equipment and the purpose of each.
- Differentiate between the compressed air quality classes.
- Interpret the compressed air quality rating designations.

## Table of Contents

### I. Types of Pollutants

- Solids
- Liquids and Aerosols
- Gases and Vapors

### II. Lower-Level Purification Equipment

- Drain Valves
  - Electronic Auto Drain Valves
  - Level-Operated Auto Drain Valves
- Aftercoolers
  - Water-Cooled Aftercoolers
  - Air-Cooled Aftercoolers
- Water Separators
  - Gravity Separators

- Inertia Separators
- Coalescing Separators

### III. Higher-Level Purification Equipment

- Air Filters
  - Particulate Filters
  - Coalescing Filters
  - Oil Vapor Removal Filters
- Air Dryers
  - Refrigerated Dryers
  - Desiccant Dryers
- Catalytic Converters
  - Heated Catalytic Converters
  - Non-Heated Catalytic Converters

### IV. Ancillary Equipment Selection

- Compressed Air Quality Standards
  - Pollutant Specifications
  - Quality Classes & Ratings
  - Compressed Air Quality Classes for:
    - Solids
    - Water
    - Oil
- General Ancillary Equipment Guidelines
- Application Examples
  - General Workshop Air
  - Food and Beverage
  - Direct Contact Air
  - Breathing Air

