



## Heat Transfer Equipment - PF-43

### COURSE

#### About the Course

This course reviews the selection, basic design, and operation of heat transfer equipment commonly used in the oil and gas industry, with focus on E&P production facilities. Heat transfer equipment discussed will include shell and tube exchangers, compact heat exchangers, brazed aluminum exchangers, air coolers, and fired equipment (fire-tube and direct-fired).

#### Target Audience

Engineers and senior operating personnel involved in the design, specification, or operation of heat transfer equipment.

#### You Will Learn

- How to select the correct heat transfer equipment for a particular application with reference to typical facility process flow diagrams (PFDs)
- To apply heat transfer principles to design and specify heat transfer equipment
- How to evaluate the performance of heat transfer equipment and recommend solutions to problems
- About the typical instrumentation and control schemes used by the various types of heat transfer equipment

#### Course Content

- Heat exchanger types and applications
- Heat transfer fundamentals
- Heat exchanger basics
- Shell and tube heat exchangers
- Air cooled heat exchangers
- Compact heat exchangers (focus on plate-type)
- Brazed aluminum (plate-fin) heat exchangers
- Reboilers and condensers
- Fouling
- Fired heaters
- Fire-tube heaters
- Typical operating problems

- Typical instrumentation/control schemes

## Product Details

Categories: Midstream

Disciplines: Process Facilities

Levels: Intermediate

Product Type: Course

Formats Available: In-Classroom

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