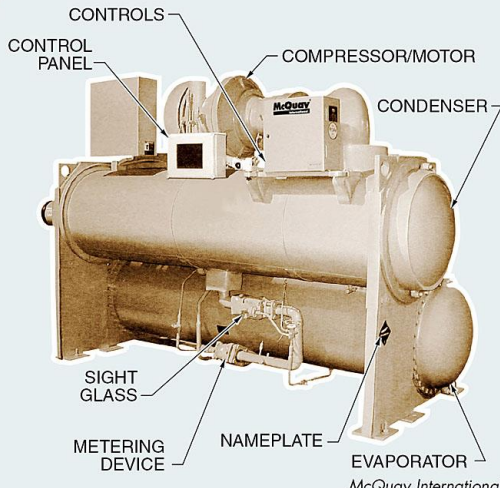


## Facility Engineer Program

### Chillers



**HVAC Central Plants** – (24 hrs/6 classes)

Tuition: \$470

**BOOKS:** HVAC&R 6-Part Series Workbooks

\$90

### TOPICS COVERED:

- Chillers
  - Installation
  - Maintenance
  - Troubleshooting
- Chilled water systems
  - Pumps & piping
- Compressors
- Condensers
- Cooling towers
  - Water treatment
- Air handling systems
  - Air handler calibration
  - VAV/Variable Air Volume systems
- Complete system troubleshooting

**CLASS DATES: March 31 - May 5, 2017**

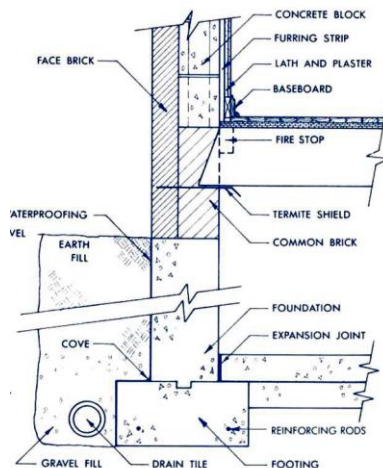
**INSTRUCTOR:** Kenneth Ellis (for all three courses)

**Boiler Operations** – (40 hrs/10 classes) Tuition: \$750

**BOOKS:** Boiler Operator's Workbook (w/ CD-ROM) \$85

### TOPICS COVERED:

- Boiler theory and principles
  - Firetube, watertube, cast iron, & other boiler types
- Boiler construction and design
- Steam systems and controls
  - Safety valves, vents, other valves, and piping
- Water supply systems and controls
  - Pump theory and types
- Water treatment systems and controls
- Fuel systems and controls
  - Coal, fuel oil, and fuel gases
- Draft & flue gas systems and controls
- Instrumentation and control systems
- Boiler operation and maintenance
  - Start-up and shutdown procedures
  - Maintenance and troubleshooting
- Boiler system optimization



### Blueprint Reading

(8 hrs/2 classes)

Tuition: \$160

**BOOKS:** Blueprint Reading \$45

### TOPICS COVERED:

- Introduction to blueprints
- Sheet metal drawings
- Piping and plumbing drawings
- Electrical drawings
- A/C and refrigeration drawings

**DATES: January 6 & 13, 2017**

**DATES: Jan 20 - March 24, 2017**

**TOTAL COST: \$1,600 (tuition \$1,380 + books \$220)**

All classes are held on Friday nights from 5 - 9pm.

For more information: 702-948-9000 or [www.ntitraining.net](http://www.ntitraining.net)

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