

Johnson Controls Institute Course

HVAC Maintenance (#220)

\$1,445/~~\$1,295~~
(3.0 CEU)

Protect your facility's investment in HVAC equipment by knowing your equipment, and proper maintenance and operating techniques. This introductory course provides a classroom overview of the mechanical equipment used in HVAC applications for anyone entering the HVAC maintenance field. The refrigeration process is explained, and common HVAC components, such as chillers, towers, pumps, boilers, dampers, valves, and air compressors, are identified. Participants learn proper maintenance and safety procedures as well as basic troubleshooting techniques for each piece of equipment. The boiler portion of this course can be used as review for a local boiler license exam.

Related Course: HVAC Mechanical Systems (#210).

MONDAY

AM: Overview of HVAC Systems
Electrical Systems Overview
LAB: Air Conditioning Electrical Systems
PM: OSHA Lockout/Tagout Training
LAB: Electrical Safety, Lockout/Tagout
Refrigeration Theory

TUESDAY

AM: Refrigeration Components
LAB: Computer Simulated A/C System
Refrigeration Maintenance and Troubleshooting
LAB: Computer Simulated A/C Troubleshooting
PM: Centrifugal Systems Overview
LAB: Oil Acid Test Kit Use

WEDNESDAY

AM: Absorption Systems Overview
Cooling Towers
LAB: Water Chemistry Test Kit Use
PM: Air Handling Systems
LAB: Belt Tension and Replace
LAB: Damper Lube and Repair
LAB: Bearing Grease

THURSDAY

AM: Boilers
LAB: Valve Repack
PM: LAB: Pump Coupling Replace
LAB: Trap Rebuild

FRIDAY

AM: Air Compressor Maintenance
Final Review

Course ends at 11:30 a.m.

