

Air Conditioning & Refrigeration: Advanced



Maintaining air conditioning systems is two-fold.

- Troubleshooting and immediate action is required to repair issues as they occur.
- Proper preventive maintenance can lessen the frequency of the problems and lengthen equipment life.

This class assumes that the participants have a basic understanding of Air Conditioning Systems and focuses on advance concepts.

WHAT THIS COURSE COVERS

- Refrigerants
- Psychrometrics
- Evaporators
- Residential AC Systems

WHO SHOULD TAKE THIS

- Refrigeration System Operators
- HVAC Maintenance and Repair Technicians
- Plant and Facility Maintenance Technicians
- Building Engineers
- Building Managers and Superintendents
- Plant and Facility Managers
- Environmental Health and Safety Personnel
- Apprentice and Experienced HVAC Technicians
- Stationary Engineers
- Energy Management Personnel of People

COURSE OUTCOMES

- Adapt HVAC Concepts as they Apply to Air Conditioning, Refrigeration, Heating, Chillers, Boilers, and Pneumatic Comfort Controls
- Perform HVAC Operation, Preventative Maintenance, and Troubleshooting

COURSE AGENDA

- Thermodynamics
- Vapor-Compression Refrigeration Cycle
- Refrigerants and Oils
- Refrigerant Equipment Components
- Heat Load in Refrigeration System
- Psychrometrics
- Refrigeration Baselineing
- Characteristics of Evaporators
- Troubleshooting an Air Conditioning System
- Charging Residential Air Condition R-22



Lecture



Hands-on

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ONSITE: 3-days (24 hours)

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LIVE ONLINE: 3-days (24 hours)



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