# Failure Avoidance & System Technologies – A/C

## Be proficient – and successful – in compressor knowledge for air conditioning applications!

Air conditioning system technology has evolved to take advantage of new compressor technologies and environmentally-friendly refrigerants. This course will provide you with the knowledge you need to be proficient – and successful – with this advanced technology. Proper service techniques and failure avoidance practices are presented clearly and with valuable insights into how to apply them efficiently in the real-world service environment. Failure avoidance and system technologies training for air conditioning also covers compressor application and today's advanced systems technology which enables communication and diagnostics.

### Topics covered include:

- Understanding the AC cycle
- Compressor Technologies
- Scroll Components
- Internal Scroll Safety Controls
- AC Scroll Applications and System Accessories
- Digital Technologies
- Copeland Scroll™ UltraTech™
- Variable Speed Scroll
- Compressor Failure Modes
- Online Tools and Mobile Applications

*Every seminar offered from Educational Services is led by an Emerson certified instructor. The curriculum is carefully developed to provide a thorough and comprehensive educational experience.*

## Education You Can Build On

**EMERSON**™
Climate Technologies

## Program Details

### Who should attend this one-day program?

HVAC/R service and installation personnel who work on refrigeration and air conditioning condensing units.

### Hospitality:

A light breakfast, lunch, and refreshments will be provided.

### Continuing education credits:

- 8 hours of NATE-recognized continuing education credit towards recertification in air conditioning, air distribution, refrigeration and heat pump installation and service.
- Educational Services is authorized by IACET to offer 0.7 CEUs for each program.

### Training materials provided:

- Participant Manual
- Compressor Product Guide
- Temperature Pressure Chart

### Fee:

- $395 per course

### Location:

Various locations throughout North America

## MORE Specialized Technology Days

For course schedules and registration information, visit Education.EmersonClimate.com or call 800-748-2779

### Scroll Compressor
- Refrigeration Basics
- Additional System Components
- Refrigerants and Oils
- Scroll Technology Fundamentals
- Scroll Applications

### Compressor Applications & Technologies
- Compressor Protection
- Compressor Modulation
- Retrofit Refrigerants
- Introduction to E2 System Controllers

### Hands-On AC/Refrigeration Simulator
- Hands-on system training tailored to meet your needs
- Programmable to trigger specific installation, operations, and maintenance issues
- Complete working system includes critical components such as compressor, motor, valves, sensors, and controls

**Authorized by IACET to offer 0.7 CEUs for this program**



**Educational Services – *We have the resources to deliver***
Technical training is more important than ever. Emerson's Educational Services group delivers comprehensive training programs that not only cover essential service skills, they also keep you up-to-date on emerging technology. From hands-on seminars to online tools, Emerson provides the training you need, at a time and place that fits your schedule. Emerson is also a proud supporter of industry associations and certification programs.

**Emerson instructors – *Recognized industry leaders***
Every Emerson Climate Technologies course is led by an Emerson certified instructor. With exceptionally broad knowledge and understanding of refrigeration principles, technology and the industry as a whole, each of our instructors has extensive hands-on experience, and an innate understanding of the contractor's business, needs and concerns.

**We Train Technicians for NATE Certification**

# Education.EmersonClimate.com

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