

COMPRESSOR OPERATION AND SERVICE SEMINAR



Duration: April 9-11, 2019
8:00 AM - 5:00 PM

Sid Harvey's in Denver
2700 W. 6th Ave.
Denver, CO 80204

Cost: \$575 Per Student

Who Should Attend?:

Refrigeration Service Contractors, Light Commercial Service Contractors, End User Service Technicians, Installer Contractors, Service Managers, Facilities Engineers

Hospitality:

Light breakfast, lunch and refreshments provided

Continuing Education Credits:

• 24 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 2.1 CEUs for each program.

Materials:

- Participant Manual
- Technical Data Sheets
- Online Product Information (OPI)
- Experience on many mobile apps.

Program Description

This three-day program provides you with an in-depth understanding of compressor design, construction and operation. You'll learn about the latest in Copeland™ compressor technology and applications as well as examine overall system design, field service and troubleshooting. The class includes a valuable failure analysis hands-on tear-down. Results include better customer service, more accurate diagnosis and more effective repairs to eliminate costly callbacks and increase technician productivity.

Length

3 days

Learning Outcomes

After attending this course, you'll be able to:

- Identify the basic components of a refrigeration system and describe their functionality.
- Describe best-practices used in servicing refrigeration systems.
- Define the three conditions of refrigerants.
- Compare the properties of refrigerants.
- Identify the refrigerants and lubricants recommended by Emerson for use with Copeland™ compressors.
- Describe the design, construction and operation of scroll, hermetic, and semi-hermetic compressors.
- Explain compressor motor operation.
- Identify common causes of compressor failure.
- Describe troubleshooting steps that can be taken to avoid compressor failures.
- Demonstrate how to recognize the causes of compressor failures.
- Use Emerson Mobile Apps to locate information and troubleshoot products.

Program Description

Day 1

- Good Service Practices
- System Components
- Refrigerants and Oils
- Compressor Fundamentals

Day 2

- Refrigerant-Cooled Compressors
- Reciprocating/Welded Compressors
- Scroll Compressors
- Air-Cooled Compressors

Day 3

- Mechanical Causes
- Teardown and Analysis of Failure
- Corrections
- Motor Applications



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QUESTIONS???
CALL EMERSON EDUCATION
SERVICES (800) 748-2779
OR SID HARVEY'S DENVER
(303) 623-1236

Compressor Operation and Service Seminar

Dates: **April 9 - 11, 2019**
Course Hours: **8:00 a.m. - 5:00 p.m.**
Location: **Sid Harvey Industries
2700 W. Sixth Ave.
Denver, CO 80204
303-623-1236**

Questions regarding this class?
Call (800) 748-2779



Fee & Payment Method: *(Fee must be paid prior to start of class.)*

Price: \$ 575 per student – includes lunch and refreshments



MasterCard VISA American Express Discover Bill Sid Harvey Acct# _____
 Check Payable to: Emerson Climate LLC/Educational Services, if registering with Emerson Climate Services LLC

Name on Card: _____ Card Number: _____

Exp. Date: (mm/yr) _____ CVS Code _____ What's the CVS code? MC/Visa AMEX

Cardholder's Signature: _____



3 digits

4 digits

Attendee Information:

Name: _____

Company: _____

Company Address: _____

City: _____ State: _____ Zip: _____

Phone: _____ Fax: _____ E-Mail: _____

Type of Business: _____ Job Title: _____

Return Registration To:

Emerson Climate Services LLC
Educational Services
Attn: Barb Knasel
1351 N. Vandemark Road
Sidney, OH 45365
Fax to (937) 498-3729



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Registration acceptance is on a first-come, first-served basis.

Education You Can Build On

