HVACR compressor operation and maintenance

Copeland refrigeration certifications

NC3 and Copeland help shape tomorrow's workforce through certification programs, industry supported curriculum and hands-on training. Students receive classroom instruction on compressor operation principles.

PROGRAM OBJECTIVES

- Describe the design, construction and operation of scroll, hermetic, and semi-hermetic compressors.
- Calculate compression ratio.
- Recognize common causes of compressor failure and identify methods of prevention.

PROGRAM OUTCOMES

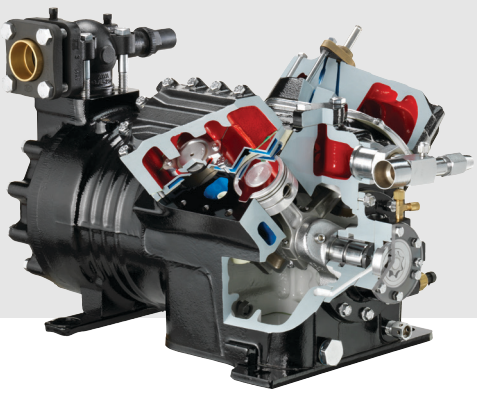
- Students that complete the Compressor Inspection certification will demonstrate their understanding of compression mechanical and electrical operation.
- Students that complete the Compressor Inspection certification will correctly perform a compressor teardown, inspection and failure analysis.

COURSE CONTENTS INCLUDE:

- Compressor Fundamentals
- Air Cooled Semi-Hermetic Compressors
- Refrigerant Cooled Semi-Hermetic Compressors
- Reciprocating Hermetic Compressors
- Scroll Compressors
- Capacity Modulation
- Causes of Compressor Failures and System Corrections

HANDS-ON TRAINING

Students perform an inspection and analysis to identify potential causes of failure.



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Copeland is a proud partner of the National Coalition of Certification Centers. Copeland Certifications are developed and administered by NC3 (National Coalition of Certification Centers) and are compatible with other industry recognized certifications.

For more information, contact NC3 at nc3.net.