

R-134a Refrigerant Recovery & Charging Training | eLearning Course

Pressure and Temperature Measurements - WX19173-AA03EEN-E1

Objective 5: Define Superheat and Subcooling and Explain Their Importance

Subcooling Importance

Subcooling determines the refrigerant's vapor-to-liquid proportion after the metering device. In a subcooled state, refrigerant can absorb some heat and remain in mostly liquid form.

Heat pumps operate within a specific subcooling range, typically 10 °F to 20 °F (6 °C to 11 °C).

This ensures that efficient heat transfer occurs in the evaporator. Operation outside this range indicates a low refrigerant charge or a refrigerant restriction.

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eLearning Course: M19162

Amatrol's Multimedia Courseware - Refrigerant Recovery and Charging for R-134a eLearning course (M19162) teaches aspiring HVACR technicians the critical skills they need to succeed on the job. Learners will cover a wide variety of relevant refrigerant recovery and charging topics, including: refrigerant fundamentals, leak detection, pressure and temperature measurement, refrigerant recovery and recycling, and refrigerant charging.

Interactive eLearning Curriculum with Learning Management System

Highly-Interactive Multimedia Format Appeals to All Learning Styles

Amatrol's refrigerant recovery and charging eLearning course features interactive eLearning curriculum that integrates various types of learning methods to create an engaging, effective learning experience. Amatrol's multimedia eLearning curriculum includes text with voiceovers, videos, 3D animations, pictures, and interactive activities, quizzes, and self-reviews. The curriculum teaches learners the fundamentals of refrigerant recovery and charging. For example, learners will study relevant topics, such as leak detection, pressure and temperature measurement, refrigerant recovery and recycling, and refrigerant charging.

Free Learning Management System (LMS)

Amatrol eLearning is easy-to-use for both students and instructors. Its web-based interface is simple to navigate and available on any WebGL-compatible Internet browser. Instructors love Amatrol eLearning for its simple, yet sophisticated Learning Management System (LMS). The LMS allows instructors to create custom courses, monitor student participation, track course progress, assess knowledge levels prior to a course, and test knowledge levels after completion. Learners appreciate the fact that they can start and stop as needed, moving through each Amatrol course at their own pace. If a self-review reveals that they didn't understand a particular topic as well as they thought they did, they can revisit it before moving on.

Additional Info



Requires:

- Computer: [See Computer Requirements](#)

Options:

- Refrigerant Recovery and Charging Learning System for R-134a (T7031)
- Amatrol SkillTrace Software (94-ST1)

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