

# Basic Thermal Technology Training for High School | eLearning Course

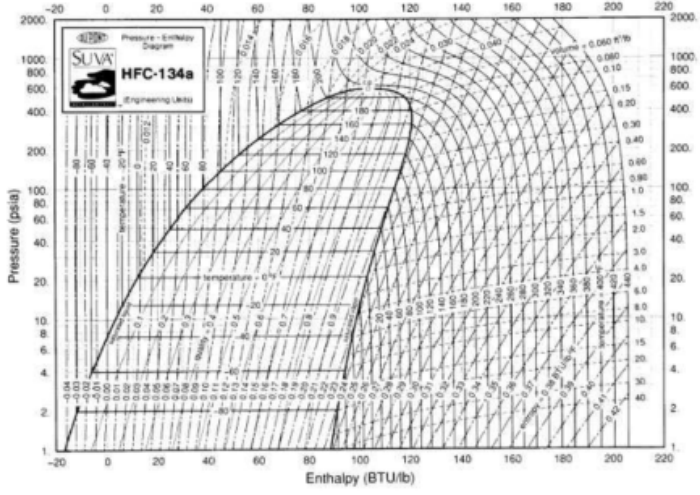
Refrigeration Thermodynamics - WB788-XB02AEN-E1

Objective 5: Describe a Pressure-Enthalpy Diagram and Explain Its Importance

### The Pressure-Enthalpy Diagram and Its Uses

Up until now, you have studied thermodynamic states, properties, and tables. You will now see how these three aspects of pure substances can be brought together into a graphical form called a pressure-enthalpy diagram, sometimes referred to as the "phase diagram" or abbreviated as the "p-h diagram."

The p-h diagram for refrigerant R-134a is shown here.



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## eLearning Course: MB787

Amatrol's Multimedia Courseware - Thermal Technology 1 eLearning course (MB787) provides learners with the knowledge needed to comprehend the principles of modern thermal systems, such as HVAC, geothermal, refrigeration, and steam systems. As learners progress through the curriculum, they will perform experiments demonstrating principles such as the ideal gas law, linear and volumetric thermal expansion, basic temperature measurement, latent and sensible heat, specific heat capacity, conduction, convection, radiation, evaporative cooling, and basic refrigeration.

## Interactive eLearning Curriculum with Learning Management System

### Highly-Interactive Multimedia Format Appeals to All Learning Styles

Amatrol's basic thermal technology troubleshooting 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.

### 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:**

- Thermal Technology 1 Learning System (96-TT1)
- Amatrol SkillTrace Software (94-ST1)

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