

Course Title: INT-107 Introduction to Heating, Ventilation, Air Conditioning and Refrigeration

Date: Spring 2017

Course Team: Dennis Faulk

Programs: Industrial Technology, Alternative Energy Technology

Expected Learning Outcomes

- Understand refrigeration theory.
- Understand EPA regulations and refrigerant recovery process.
- Understand HVAC/R system components and how they work.
- Understand evacuation, leak testing, and charging procedures.
- Understand SEER and COP energy ratings

Assessment

- 2 written tests and a final written exam
- Classroom lab exercises and assignments

Validation

- Comparison of final exam results with national average skills in the HVAC and energy field of work.
- The evaluation of student performance and ability to transfer knowledge to next level of class in the program.
- Consult Advisory Committee participants as to performance of interns and hired students based on ability and knowledge gained.

Results

- The results of tests who how much of the content the students have retained throughout the semester
- Hands on exercises show the capability of students to transfer knowledge they have read into hands on applications
- Internships will measure the student outcomes in a real world environment through feedback from internship supervisor
- **Spring 2017**
 - Class average 92%.
 - Students were successful at performing hand on classroom assignments

Follow-up

The data will be evaluated to improve teaching techniques

The data will be evaluated to help us remain up to date with technology changes.

Budget Justification

- Update textbook to include changes in technology
- Update classroom equipment to keep pace with changes in technology