

HVAC/R Program
Board of Trustees Meeting
June 12, 2024





Acknowledgement ICCB Program of Study



Industry Requirements OSHA

Apprenticeships Refrigerant Handling Certification



Curriculum Overview

Credentials
Learning methodologies
Employment Ready Certifications





Incentives/Industry

DOE Mandates
Low Temp. Heat pumps
Flammable Refrigerants
Building Automation Training



Industry Partnerships

Internships AMCA York



Model Program of Study Selection



Harper's HVAC-R program was selected to become a Model Program of Study out of all the Program of Study submissions in the State

The primary purpose and goals of the Model Programs of Study are to:

- 1. Provide guidance for local programs to adopt as they develop programs of study.
- 2. Establish a framework for State agencies to develop and implement program supports.
- 3. Identify priority dual credit courses that are foundational to the industry area.
- 4. Define the competencies that should be sequenced across a program of study course.
- 5. Identify entry points for employers to support coursework and related experiences.

Program Curriculum

Associates in Applied Science

Refrigeration and Air Conditioning Technology

Certifications

- Residential Heat & Air Conditioning Refrigeration
- Residential Comfort Systems
- Refrigeration Service
- Heating Service
- Air Conditioning & Refrigeration Service

Learning Methodologies

Traditional Classroom Lessons Open Entry



Employment Ready Certification

- Gas Heat (exam code G-25)
- **❖ Electrical** (exam code E-01)
- * Air Conditioning (exam code A-02)
- **Commercial Air Conditioning** (exam code C-04)

The exams are used to assess the technical skill levels students are achieving as required by industry standards

Residential HVAC Systems





Commercial Systems

Light Commercial HVAC Systems





Building Energy System Technology



Community Education

Occupational Safety & Health Training



Refrigerant Handling Certification



Federal Clean Air Act
Section 608
May 31, 1994

Apprenticeship Programs

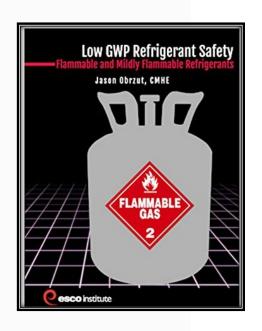


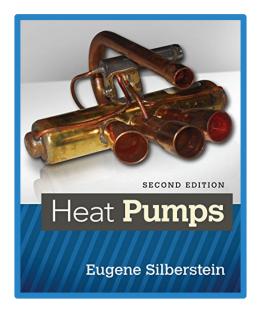


Curriculum Updates

New course focusing on:

- VRV Systems
- Mini Split Systems
- A2L Refrigerant Systems
- Low-Temperature Heat Pumps







Initiatives

Flammable Refrigerant Training: Equipment installation of a residential HVAC system and ductless systems.



A2L Flammable Refrigerant Training



Heat Pumps & Mini Splits Training



Residential HVAC Training Systems



Building Automations Training





Industry Partners



Internships & Student Resources



Summer Internship Program

Lucas Hudson



Maintenance Department Internship Program

Erin Chapa



Pip Tegtmeyer



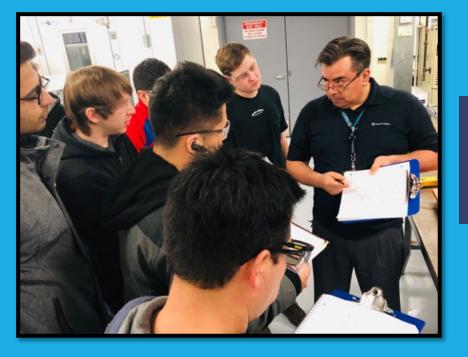
Residential Comfort Systems Donation





Student Learning

Residential Comfort Systems

















School-To-Work: Learning from an Industry Perspective

Lisa Cherney Education Manager



amcaINTERNATIONAL





Student Learning

Thank You!



HVACR Program





2024







Closing Remarks

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Career & Technical Programs

