

CONTACT

For more information about the Industrial Heating, Ventilation, Air Conditioning and Refrigeration Program at Kellogg Community College, please contact:

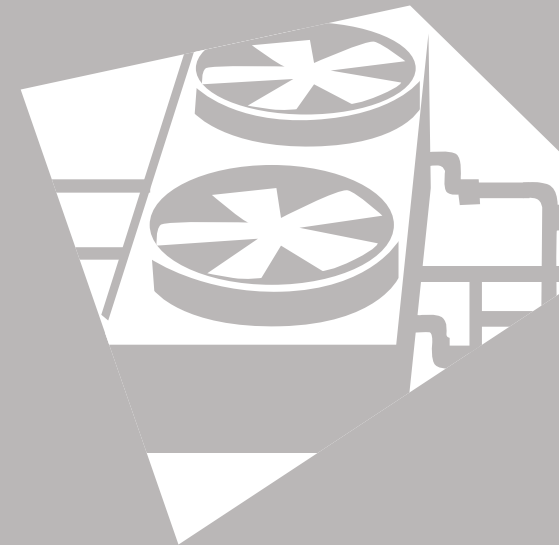
Byron Vorce, HVAC-R Instructor
Kellogg Community College
Regional Manufacturing Technology Center
405 Hill Brady Road
Battle Creek, MI 49037

PHONE 269.965.4137
FAX 269.962.7370
E-MAIL vorceb@kellogg.edu
WEB www.kellogg.edu/rmtc

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Industrial Heating, Ventilation, Air Conditioning and Refrigeration



inspiring generations

Regional Manufacturing Technology Center

Industrial Heating, Ventilation, Air Conditioning and Refrigeration Program

Heating and air-conditioning systems control the temperature, humidity, and the total air quality in residential, commercial, industrial, and other buildings while refrigeration systems make it possible to store perishable items. The Industrial Heating, Ventilation, Air Conditioning and Refrigeration (HVAC-R) Program at Kellogg Community College prepares students to install, maintain, and repair these systems.

EMPLOYMENT OPPORTUNITIES

HVAC-R technicians work for companies or private contractors on a wide variety of residential, commercial, and industrial buildings including homes, schools, hospitals, manufacturing facilities, shopping centers, office buildings, and apartment complexes.

Job growth rate from 2006-2016 7-13%

Median Annual Earnings \$39,680

Source: United States Bureau of Labor Statistics www.bls.gov

Career opportunities include:

- HVAC-R Specialist
- HVAC-R Technician
- HVAC-R Mechanic
- HVAC-R Installer
- HVAC-R Service Manager
- Mechanical Engineering Technicians

With further education, opportunities include:

- Maintenance Supervisors
- Mechanical Engineer
- Mechanical Drafters

PROGRAM OPTIONS

Kellogg Community College offers three program options:

- Industrial Trades Certificate in HVAC-R (25 credits)
- Industrial HVAC-R Associate in Applied Science (62 credits)
- Skilled Trades Associate in Applied Science for Journeyman or USDOL Apprenticeship card holders (approximately 35 credits)

RECOMMENDED TECHNICAL ELECTIVES

Electricity and Electronics and Pipefitting

COURSE WORK

The course work within the Industrial Heating, Ventilation, Air Conditioning and Refrigeration Program provides hands-on learning opportunities using real-world equipment. Courses are modular with some portions of the modules available for online completion. Modules are pass/fail, which means a student can continue to work on the module until they pass the module. Students receive one-on-one instruction from a journeyman instructor.

Topics covered in Heating, Ventilation, Air Conditioning and Refrigeration modules include:

- Refrigeration Fundamentals
- Refrigeration Systems
- Compressors/Compression Systems
- Electrical Control Systems
- Refrigerants
- Hermetic Systems
- 608 EPA Certification
- Commercial Refrigeration
- Special Refrigeration Systems
- Fundamentals of Air Movement
- Basic Heating and Air Conditioning Systems
- Ammonia Refrigeration Systems