

CONSTRUCTION & MANUFACTURING

COMMERCIAL HVAC/R TECHNOLOGY

Delivery: Monday-Friday at Pipefitters Union 455

Start: Fall Semester

AWARDS

Commercial HVAC/R Diploma 35 cr.

MAJOR DESCRIPTION

With the anticipated high need for trained, diverse and motivated HVAC professionals, DCTC has designed an all-new program in partnership with Johnson Controls and The Pipefitters Union 455. In the fall of 2024, adults 18 and older that are located in or around St. Paul have the opportunity to apply to have the chance to learn, build and start their journey into the trades. The Commercial HVAC Program is designed to give individuals who are looking for a stable career the ability to work alongside business professionals to grow their knowledge and abilities in all things Commercial HVAC. Students will get hands-on training in the form of labs, lectures and putting their knowledge to the test with group and single person projects. This program is structured to give students basic knowledge surrounding Commercial HVAC so they can seamlessly transition into a paid position, continue at the Pipefitters Union 455 or continue their education at DCTC to complete an Associate Degree. Interested students should possess strong basic math skills and the desire to work with their hands. Women and BIPOC individuals highly encouraged to apply.

This program would not be possible without funding from Johnson Controls, and a space provided by the Pipefitters Union 455.

WORK ENVIRONMENT

Commercial HVAC Technicians spend their time working on and in large facilities across the nation. HVAC technicians must be willing to work independently, in extreme conditions, and at all hours of the day. If a building's heat shuts off, you'll be the one to figure out where the problem is or be the individual called in to fix the problem at hand. HVAC technicians work all months of the year in spaces such as roof tops, and basements. Occasional heavy lifting, working on ladders or in high spaces may be necessary depending on the job. If you are wanting a position with endless opportunities for work and the chance to make a direct impact in people's lives, consider Commercial HVAC as a career choice for you!

TRANSPORTATION

Students must be able to get themselves to and from the Pipefitters Union 455.

POTENTIAL JOB TITLES

- Continue training at the Pipefitters Union 455 to become a Union HVAC Employee
- Commercial HVAC/R Service Technician
- Commercial HVAC/R Installer
- HVAC/R Equipment and Parts Salesperson

SALARY DATA

See latest data at careerwise.minnstate.edu.

- Average Wage: \$52.20/hour
- Top Earners: \$54.16/hour

ADDITIONAL INFORMATION

Scan the QR code for more program information and specific program costs.

This program has specific admissions requirements. Students will be attending all classes at the Pipefitters Union 455. An interview with the Union is required for acceptance into the program.



COMMERCIAL HVAC & REFRIGERATION

DIPLOMA

All HVAC courses must be taken in the sequence below.
Please contact your program advisor with questions.

Fall Semester **19 cr**

HVAC1300	Basic Safety	1
HVAC1310	Thermal Dynamics - Theory of Heat	2
HVAC1170	Introduction to Basic Electricity	2
HVAC1320	Basic Motor Technology & Residential Controls	2
HVAC1150	Halide Refrigerant Certification	2
HVAC1160	Employability, Problem Solving and Customer Relations	2
HVAC1325	HVAC Piping & State Mechanical Code	2
HVAC1330	Steam & Hot Water Heating	3
COMS1020	Interpersonal Communication.	3

Spring Semester **16 cr**

HVAC1200	Residential Forced Air Heating Systems	4
HVAC1231	Ventilating Systems	2
HVAC1240	Air Conditioning and Heat Pump Service	3
HVAC1335	Internship.	1
HVAC2220	Commercial HVAC I	3
	General Elective (MnTC Goal 3 or 4) <i>BIOL1110* recommended.</i>	3

TOTAL PROGRAM REQUIREMENTS 35