

# HEATING VENTILATION & AIR CONDITIONING TECHNOLOGY

## CAREER PATHS

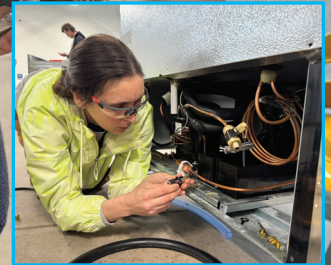
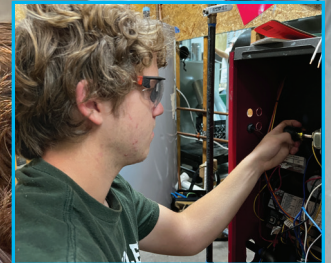
AIR CONDITIONING SERVICE TECHNICIAN  
FIELD SERVICE TECHNICIAN  
CONTROLS TECHNICIAN  
HVAC/R INSTALLER  
FURNACE FITTER/INSTALLER  
REFRIGERATION SYSTEMS INSTALLER

## SALARY

\$59,810\*  
MEDIAN ANNUAL INCOME

## JOB GROWTH

2023-2033: 9%\*



SCAN FOR YOUR FUTURE



# HEATING, VENTILATION & AIR CONDITIONING TECHNOLOGY



## PROGRAM OBJECTIVE

The Heating Ventilation and Air Conditioning program is to provide students with the skills needed for entry-level positions in the installing, repairing and troubleshooting various heating and cooling equipment. Students will work with industrial standard tools associated with equipment such as oil and gas furnaces, refrigeration units, and air conditioning equipment.

## READY. SET. WORK.

- Goal 1:** Graduates will possess the skills necessary to obtain an entry-level HVAC Technician position.
- Goal 2:** Graduates will demonstrate safe HVAC practices and obtain an understanding of the significance of safety procedures in the HVAC environment.
- Goal 3:** Graduates will be able to perform entry-level troubleshooting and preventative maintenance on various heating, air conditioning, and refrigeration systems.

Applicants are encouraged to arrange a campus visit and a personal information session with a Recruitment Advisor. Appointments may also be made to meet with appropriate faculty and current students.

## CAREER OPPORTUNITIES

Employment opportunities consist of HVAC installers, controls technicians, service technicians, maintenance mechanics, plumbers, engineers, programmers, research development, management, sales, and dispatch. But let's be clear – this is an exciting, evolving field that requires hard work, dedication, innovation and creative problem solving.

## PROGRAM COURSES

CREDITS

### TERM 1

Introduction to Pipefitting	2
Fundamentals of Electricity	2
Fundamentals of Electricity Lab	2
OSHA 10 Construction Safety Certification	0
Microcomputer I	3
Public Speaking	3
College Algebra I and Trigonometry	3
First-Year Experience	1

### TERM 2

Introduction to Electricity for the Trades	1
Introduction to Electricity for the Trades Lab	2
Contract Drawings	3
Refrigeration	2
Refrigeration Lab	4
Science Elective	3

### TERM 3

Construction Elective	3
Industry Communication	3
Heating System Design & Installation	2
Heating System Design & Installation Lab	4
Air Conditioning Systems	3
EPA Section 608 Certification	1

### TERM 4

Introduction to Business	3
Motors and Controls	2
Motors and Controls Lab	4
Applied Practice and Special Topics or Internship	4
Commercial HVAC/R or Introduction to Building Automation Systems	3

### MINIMUM CREDITS TO GRADUATE

63

This term layout is based off of a fall start. Students who start in the spring will be required to attend an additional term to complete their degree.

There may be special admission requirements for this program. Please speak with a Recruitment Advisor by calling **570-702-8856** or visit our website [johnson.edu](http://johnson.edu) to review our requirements.