

HEATING, VENTILATION, AC/REFRIG TECHNOLOGIES

Campus Location

Lemley Campus

Occupational Focus

Tulsa Tech's Heating, Ventilation, Air Conditioning/Refrigeration (HVAC/R) program provides a solid background for attractive employment in a very stable industry. You will study both residential and commercial cooling and heating systems in a cutting-edge facility. You will learn about hydronic systems, air duct sizing, air and water balancing procedures, psychometrics of heating, ventilation, and air conditioning systems, heat pumps and installation procedures. You will develop diagnostic skills as well as apply repair and servicing techniques through troubleshooting and work on live equipment. With the opportunity to earn valuable industry certifications, you may enter the workforce or opt to apply credit toward an associate degree and beyond.

For information concerning working conditions, physical requirements, employment and job outlook please refer to the 2008-09 Occupational Outlook Handbook (OOH) at <http://www.bls.gov/oco/>.

Who Can Attend?

High school students
Adults

Prerequisite(s)

None

Scheduling Information

One to two year program beginning in August
Check with Admissions Office at 918.828.5260 for start dates.

Three to six hours daily

--Morning session - 7:55 - 10:55 am

--Afternoon session - 11:55 - 2:55 pm

Career Majors

Commercial HVAC Technician - 1200 Hours*

This career major is an introduction to air-conditioning and refrigeration, exploring career opportunities in the HVAC/R industry, personal safety and work practices, and personal protective equipment. Students will be instructed in the proper handling of pressurized fluids, handling hazardous substances, hand and power tools, and equipment used to test and service air conditioning. This career major will focus on commercial applications.

Residential HVAC Technician - 1050 Hours*

This career major is an introduction to air-conditioning and refrigeration, exploring career opportunities in the HVAC/R industry, personal safety and work practices, and personal protective equipment. Students will be instructed in the proper handling of pressurized fluids, handling hazardous substances, hand and power tools, and equipment used to test and service air conditioning. This career major will focus on residential applications.

Residential HVAC Installer - 465 Hours*

This career major is an introduction to air-conditioning and refrigeration, exploring career opportunities in the HVAC/R industry.

**Career major, courses and hours are subject to change without notice*

Tuition

No charge for high school students within Tulsa Tech District.

Adult - \$2.50/hour*

**Tuition subject to change without notice.*

Books/Supplies

No textbook charge for high school students within Tulsa Tech District.

Adult books/ \$110.00 (approximately)

College Credit

College credit is available for the majority of Tulsa Tech's full-time programs through Rogers State University, Oklahoma State University-IT or Tulsa Community College. Advanced standing credit may also be granted for some of our programs. The number of hours varies depending on the program length, the college granting the credit, and the student's plan of study. Check with your Tulsa Tech counselor for more information.

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Credentials/Industry Certifications

Oklahoma Department of Career and Technology Competency Certification. Upon completion of HVAC/R, students with a "C" average or above and more than 990 hours of attendance will receive a certificate representative for two of the three years' apprenticeship required to qualify for taking the State of Oklahoma HVAC/R journeyman's licensing test.

Employment Opportunities

HVAC/R apprentice

Tulsa-Area Salary

\$13.41 - \$24.55/hour (average)

Financial Aid

Scholarships are available for eligible students. Call 918.828.5280 or email financialaid@tulsatech.org for detailed information.

Application Process

High school students see Tulsa Tech career counselor or sending school counselor.

Adults contact Tulsa Tech Admissions and Enrollment office at 918.828.5260, email admissions@tulsatech.org or check out our website at www.tulsatech.edu.

Courses by Career Majors

Residential HVAC Installer - 465 Hours*

Introduction to HVACR: Safety, Tools & Equipment
Principles of Thermodynamics and Heat Transfer
Piping and Piping Practices
Refrigerants and Lubricants
Refrigerant Recovery
Refrigerant Retrofits
Air Handling
HVAC/R System Installation and Start-Up (Residential)
Indoor Air Quality
HVAC/R Preventive Maintenance
HVAC/R Codes, Regulations & Standards
Professional Service
Load Calculations
Workforce Staging

*Career major, courses and hours are subject to change without notice

Courses by Career Majors

Commercial HVAC Technician - 1200 Hours*

Introduction to HVACR: Safety, Tools, and Equipment
Principles of Thermodynamics and Heat Transfer
Piping and Piping Practices
Electricity for HVAC/R
HVAC/R Controls
HVAC/R Solid State Electronics
Load Calculations
Refrigerant System Components
Air Conditioning Systems
Refrigerants and Lubricants
Refrigerant Recovery
Refrigerant Retrofits
Heat Pumps
Heating Systems
Air Handling
HVAC/R System Installation and Start-Up (Commercial)
Introduction to HVACR: Safety, Tools & Equipment
HVAC/R System Servicing and Troubleshooting (Commercial)
Indoor Air Quality
HVAC/R Preventive Maintenance
HVAC/R Codes, Regulations, & Standards
Multiplexed Evaporator Systems
Professional Service
Workforce Staging

Residential HVAC Technician - 1050 Hours*

Principles of Thermodynamics and Heat Transfer
Piping and Piping Practices
Electricity for HVAC/R
HVAC/R Controls
HVAC/R Solid State Electronics
Load Calculations
Refrigerant System Components
Air Conditioning Systems
Refrigerants and Lubricants
Refrigerant Recovery
Refrigerant Retrofits
Heat Pumps
Heating Systems
Air Handling
HVAC/R System Installation and Start-Up (Residential)
HVAC/R System Servicing and Troubleshooting - Residential
Indoor Air Quality
HVAC/R Preventive Maintenance
HVAC/R Codes, Regulations & Standards
Professional Service
Workforce Staging

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