



Secure your future with a solid career

# Heating, Ventilation, Air Conditioning & Refrigeration



**The Heating, Ventilation, Air Conditioning, and Refrigeration (HVAC-R) program at SJVC prepares students to work in the heating and cooling industry. Training focuses on theories of heating, refrigeration and air conditioning.**

Students study the operation, maintenance and repair of residential and commercial equipment. With SJVC's on-site equipment and lab, students learn about and train with the equipment they will find in the field when they enter the workforce.





## Hands-On Training

### Students Learn:

- Heating and cooling principles
- Electrical theories
- How to diagnose mechanical & electrical problems
- Proper installation, servicing & replacement techniques



## Credential and Professional Certifications

Graduates earn a Certificate of Completion or Associate of Science degree, and have the opportunity to earn EPA 608 certification.

Qualified heating, ventilation, and air-conditioning (HVAC) technicians can find work in a variety of residential and commercial settings and may have the following job titles:

- A/C Tech (Air Conditioning Technician)
- HVAC Installer (Heating, Ventilation, Air Conditioning Installer)
- HVAC Mechanic (Heating, Ventilation, Air Conditioning Mechanic)
- HVAC Service Technician (Heating, Ventilation, Air Conditioning Service Technician)
- HVAC Specialist (Heating, Ventilation, Air Conditioning Specialist)
- HVAC Technician (Heating, Ventilation, Air Conditioning Technician)
- Service Technician
- Systems Mechanic

Source: Occupational Information Network (O\*Net) [www.onetonline.org](http://www.onetonline.org)





## Career Information

Well-trained heating and cooling technicians are relied upon to make sure climate control systems are running smoothly. They are responsible for performing these important tasks:

- Adjust equipment to ensure optimal performance
- Assemble mechanical components or machine parts
- Confer with customers or users to assess problems
- Connect electrical components or equipment
- Cut materials according to specifications or needs
- Inspect systems to determine if they are operating properly
- Install energy-efficient heating, ventilation, or air conditioning equipment
- Interpret blueprints, specifications, or diagrams to inform installation
- Repair pipes to stop leaking
- Repair and replace worn, damaged, or defective mechanical parts
- Service heating, ventilation or air-conditioning systems or components
- Test electrical circuits or components for proper functioning

Source: Occupational Information Network (O\*Net) [www.onetonline.org](http://www.onetonline.org)



## Admissions Requirements

- High school diploma or equivalent
- Wonderlic SLE assessment score of 14 or higher
- Valid California driver license

Applicants must have reliable plans for transportation, child care and time to devote to academic work outside of scheduled class hours.



## Course Listing\*

### Core Course Requirements

Course ID	Course Name	Credit Units
HVACR 100	Theory and Applications of HVAC Systems	5.0
HVACR 101	Theory and Applications of Refrigeration	5.0
HVACR 102	Theory and Applications of Electricity	10.0
HVACR 106	Air Distribution Systems	5.0
HVACR 104	Advanced Refrigeration	5.0
HVACR 105	Advanced Electricity	5.0
HVACR 103	Advanced HVAC Systems	5.0
<b>Certificate Total</b>		<b>40.0</b>

### General Education Course Requirements

Course ID	Course Name	Credit Units
ENG 121	Composition and Reading – Part A	3.0
ENG 122	Composition and Reading – Part B	3.0
MTH 121	College Algebra – Part A	3.0
MTH 122	College Algebra – Part B	3.0
NSC 1	Introduction to Natural Sciences	3.0
PHIL 1C	Ethics	3.0
PSY 1	General Psychology	3.0
SOC 1	Introduction to Sociology	3.0
<b>A.S. Degree Total</b>		<b>64.0</b>

\*Course listings are subject to change. Reference the SJVC College Catalog for the most current program information.

### Institutional Accreditation

San Joaquin Valley College is accredited by the WASC Senior College and University Commission (WSCUC), 985 Atlantic Avenue, Suite 100, Alameda, CA 94501, (510)748-9001 (<https://www.wscuc.org>). The WSCUC is an institutional accrediting body recognized by the Council for Higher Education Accreditation and the U.S. Department of Education.

### California State Approval

SJVC is a private institution and is approved to operate as an accredited institution by the California Bureau of Private Postsecondary Education (BPPE). Approval to operate means that SJVC has been found in compliance with the standards set forth in the California Private Postsecondary Education Act of 2009 (as amended) and Title 5, Division 7.5, - Private Postsecondary Education of the California Code of Regulations. As a prospective student, you are encouraged to review the catalog prior to signing an enrollment agreement. You are also encouraged to review the School Performance Fact Sheet, which must be provided to you prior to signing an enrollment agreement.

### Consumer Information

San Joaquin Valley College publishes important consumer information for all programs and campus locations. For comprehensive consumer information, visit <https://www.sjvc.edu/admissions/consumer-information>.

### SJVC Locations

**ATASCADERO**  
805.470.7130

**FRESNO**  
559.448.8282

**HESPERIA**  
760.948.1947

**ONTARIO**  
909.948.7582

**SANTA MARIA**  
805.608.3104

**BAKERSFIELD**  
661.834.0126

**FRESNO - TRADES  
EDUCATION CENTER**  
559.453.0123

**LANCASTER**  
661.974.8282

**PORTERVILLE**  
559.853.4114

**TEMECULA**  
951.296.6015

**DELANO**  
661.778.1145

**HANFORD**  
559.584.8840

**MADERA**  
559.302.2155

**RANCHO CORDOVA**  
916.638.7582

**VISALIA**  
559.651.2500

**MODESTO**  
209.542.8800

**RANCHO MIRAGE**  
442.305.7701

*Program availability varies by campus location. Please see the catalog for details.*

[sjvc.edu](http://sjvc.edu)

