



HVAC

Degree
HVAC Technology, Associate of Science

Certificate
HVAC Technology, Certificate of Achievement

HVAC Technology Associate of Science

The HVAC Technology program prepares students for entry-level employment in the field of Environmental Control Technology, also known as Heating, Ventilation, Air Conditioning, and Refrigeration. Students completing these degrees/certificates offered in this program will have a foundation in troubleshooting and repair of air conditioning, heating and refrigeration systems. This program also introduces students to more complex systems typical to industrial refrigeration and ice machines.

Career opportunities upon successful completion of this program include, but are not limited to; HVAC/R service technician, installation technician, sales representative, and industrial refrigeration operations.

Program Learning Outcomes

Upon completion of the HVAC Technology program, the student will:

- describe, and evaluate the fundamental concepts of the refrigeration cycle.
- analyze common deficiencies in air conditioning systems.
- safely diagnose and troubleshoot electrical circuits, motors, and motor controls that are typical to air conditioning and refrigeration equipment.
- read and interpret electrical diagrams in various technical formats.
- be prepared to pass the required Environmental Protection Agency (EPA) certification exam.

To Achieve the Associate of Science

Upon completion of graduation requirements and the required degree courses with at least a 'C' grade in each course, the student will be awarded a HVAC Technology Associate of Science degree.

Total Units: 26

Required Courses

Course #	Name	Units
HVAC B50	Principles of Air Conditioning	4.0
HVAC B52	Electricity Applied to HVAC	4.0
HVAC B54	Refrigeration Technology	4.0
HVAC B55	Ice Machine Service and Repair	4.0
HVAC B60	Industrial Refrigeration Operations	4.0
ELET B3	Programmable Logic Controllers	3.0
INDT B10	Occupational Readiness	3.0

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Career opportunities upon successful completion of this program include, but are not limited to; HVAC service technician, installation technician, sales representative, and industrial refrigeration operations.

Program Student Learning Outcomes:

Upon completion of the HVAC Technology program, the student will:

- The student will be describe, and evaluate the fundamental concepts of the refrigeration cycle.
- The student will analyze common deficiencies in air conditioning systems.
- The student will safely diagnose and troubleshoot electrical circuits, motors, and motor controls that are typical to air conditioning and refrigeration equipment.
- The student will read and interpret electrical diagrams in various technical formats.
- The student will be prepared to pass the required Environmental Protection Agency (EPA) certification exam.

To Achieve the Certificate of Achievement

Upon completion of the following courses with at least a 'C' grade in each course, the student will be awarded an HVAC Technology Certificate of Achievement. . A "P" (Pass) grade is not an acceptable grade for courses in this major.

Total Units: 26

Required Courses

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