



2026 - 2027

Air Conditioning, Heating & Refrigeration Technology (HVAC)

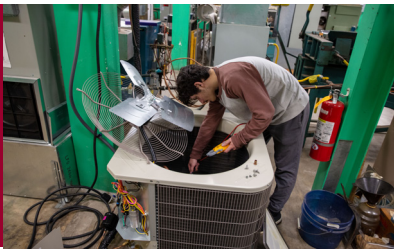
Associate in Applied Science Degrees

MULTIPLE LOCATIONS | VARIED SEMESTER LENGTHS | NUMEROUS PROGRAMS | FINANCIAL AID



Scan Code for program page online

ASHEVILLE, NORTH CAROLINA • (828) 398-7900 • ABTECH.EDU



Air Conditioning, Heating & Refrigeration Technology (HVAC)

The Air Conditioning, Heating, and Refrigeration Technology curriculum provides the basic knowledge to develop skills necessary to work with residential and light commercial systems.

Topics include mechanical refrigeration, heating and cooling theory, electricity, controls, and safety. The diploma program covers air conditioning, furnaces, heat pumps, tools and instruments. In addition, the AAS degree covers residential building codes, residential system sizing, and advanced comfort systems.

Diploma graduates should be able to assist in the start-up, preventive maintenance, service, repair, and/or installation of residential and light commercial systems. AAS degree graduates should be able to demonstrate an understanding of system selection and balance and advanced systems.

For More Information:

Contact Rachael Tipton, rachaelatipton@abtech.edu

Total Cost Estimate

Tuition per Semester (NC Resident)	\$1,216.00 (16+ credit hours) \$76.00/credit hour (1-15 hours)
Computer Use and Technology Fee	\$48/semester
Activity Fee	Fall and Spring semesters only, Main campus and Online, \$45.00
CAPS Fee (Campus Access, Parking and Security)	\$30/semester
Matriculation Fee	\$25/semester
Student Insurance	\$2/Semester

Additional Fees including books may incur, please check A-B Tech website for more detail: <https://abtech.edu/program/air-conditioning-heating-and-refrigeration-technology-aas-cost-estimate>

Have you applied for Financial aid? Please visit A-B Tech website for instructions: <https://abtech.edu/future-students/financial-aid/applying-aid>

Courses requiring a grade of "C" or better: AHR, ELC, and WBL

Course Prefix	Course Name	Credit Hours
Year One (Cooling Certificate)		
AHR 110	Intro to Refrigeration	5
AHR 113	Comfort Cooling	4
AHR 114	Heat Pump Technology	4
AHR 160	Refrigerant Certification	1
AHR 171	Comfort Cooling Lab	1
WBL 111	Work-Based Learning I	1
Year Two (Heating Certificate)		
AHR 111	HVACR Electricity	3
AHR 112	Heating Technology	4
AHR 130	HVAC Controls	3
AHR 170	Heating Lab	1
ELC 132	Electrical Drawings	2
WLD 113	Soldering and Brazing	2
Year Three (Including Diploma courses)		
AHR 115	Refrigeration Systems	4
AHR 211	Residential Systems Design	3
AHR 212	Advanced Comfort Systems	4
AHR 213	HVACR Building Code	2
COM 120	Intro Interpersonal Com	3
ENG 110	Workplace Writing Essentials	3
ELC 117	Motors and Controls	4
ELN 260	Prog Logic Controllers	4
HUM 110	Technology and Society	3
MAT 110	Math Measurement & Literacy	3
PSY 150	General Psychology	3
Program Totals:		67

Diploma and Certificates Available:

Air Conditioning, Heating & Refrigeration Technology Diploma

Cooling Certificate

Heating Certificate

For more information, please visit:

<https://abtech.edu/academicprograms/air-conditioning-heating-and-refrigeration-technology>

Advising questions? Email: advising@abtech.edu