

RESIDENTIAL HVAC

Embedded Technical Diploma

31-601-1

This embedded diploma is designed to prepare completers for entry-level employment in the area of residential heating, ventilation, and air conditioning (HVAC) employment. The diploma covers print reading and code, air conditioning fundamentals, refrigeration fundamentals, electrical fundamentals, computerized HVAC and refrigeration design, heating systems, motors and motor controls, air conditioning and refrigeration piping, charging methods, customer service essentials, trade mathematics, and communications.

Pathway Certificates and Embedded Technical Diplomas are part of a larger model of BTC's Career Pathways which link related academic programs in sequence. Each program offers direct job preparation and a path to the next level of academic programming. To view the connected program model, visit the HVAC/R Technician Career Path (<http://catalog.blackhawk.edu/academics/embedded-tech-diplomas/residential-hvac/HVACCareerPath.pdf>)(PDF).

Semester 1		Credits
601-110	Air Conditioning Fundamentals	3
601-111	Print Reading and Code	2
601-115	Electrical Fundamentals	3
601-126	Refrigeration Fundamentals	2
601-127	Computerized HVAC/R Design	2
804-306	Shop Mathematics I	2
	Credits	14
Semester 2		
601-112	ACR Piping Practices	2
601-113	Refrigerant Recovery, Evacuation and Charging Methods	2
601-130	Heating Systems	3
601-135	Motors and Motor Controls	3
462-322	Human Relations in the Industrial Setting	2
	Credits	12
	Total Credits	26