

# RESIDENTIAL COMFORT CONTROL CERTIFICATE

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32 Semester Credit Hours; Curriculum: 0063

This certificate prepares students to install, evaluate performance, conduct energy analysis, and perform required services for residential heating and air conditioning equipment. Graduates can seek employment with HVAC contractors or in maintenance department of a larger facility.

Code	Title	Hours
<b>Courses for a Certificate</b>		
AHR 101	Introduction to Air Conditioning and Refrigeration	4
AHR 102	Heating	4
AHR 103	Sheet Metal Layout and Fabrication	4
AHR 104	Introduction to Electricity and Automatic Controls	4
AHR 105	EPA Section 608 Certification	1
AHR 202	Air Conditioning II – Split System	4
AHR 203	Residential Heating and Air Conditioning Load Calculations	3
AHR 206	Residential Hot Water Boilers and Hydronics Technology	4
AHR 208	Advanced Automatic Controls	4
<b>Total Hours</b>		<b>32</b>

## Program Learning Outcomes

1. Calculate heating and cooling loads and size components of residential comfort control systems using ACCA manual.
2. Install system as required by codes of warm air heating, hot water boiler and air conditioning and perform start-up.
3. Install gas lines, refrigeration lines, and basic wiring needed to install new systems.
4. Locate wiring diagrams and interpret the operating sequence of the system.
5. Perform repairs for malfunction.