

# AUTOMOTIVE HEATING AND AIR CONDITIONING CERTIFICATE

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12 Semester Credit Hours; Curriculum: 0009

This Certificate exposes students to principles and theory of the heating air conditioning system and provides opportunities for students to demonstrate the detailed operation of such systems. Emphasis is placed on diagnosis, servicing, and replacement of refrigeration and components of both systems. This certificate is for students seeking entry-level careers in automotive technology or for individuals seeking to learn additional automotive systems to advance their skills and career. This certificate can be completed in one semester.

Code	Title	Hours
<b>Courses for a Certificate</b>		
ATA 102	Introduction To Automotive Technology	4
ATA 111	Automotive Electrical Systems I	4
ATA 207	Automotive Heating and Air Conditioning	4
<b>Total Hours</b>		<b>12</b>

## Program Learning Outcomes:

1. Implement safe work habits in automotive technology.
2. Perform automotive diagnostics and repairs in an orderly and clean process.
3. Demonstrate the use and care of basic automotive tools and equipment.
4. Identify heating and a/c components.
5. Explain the purpose of the automotive heating, ventilation, and air conditioning systems.
6. Discuss operation of the air management and delivery systems.