

# AUTOMOTIVE AIR CONDITIONING SERVICE, CERTIFICATE OF ACHIEVEMENT

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The Certificate of Achievement in Automotive Air Conditioning Service prepares students for entry-level employment in automotive air conditioning repair or as preparation for master technician status. Students will gain valuable hands-on experience in servicing, repair and diagnosis of automotive air conditioning systems. The Refrigerant Handlers Certification Examination given by International Mobile Air Conditioning Society (IMAC) is included in this training. The use of precision equipment and specialty tools is emphasized. Students are encouraged to take the Automotive Service Excellence (ASE) Exam for Heating and Air Conditioning (A7). The curriculum of the program is NATEF approved.

Course ID	Title	Units/ Hours
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## Required Core Courses:

AT R110	Introduction to Automotive Technology	6
AT R115	Automotive Electrical Systems	6
AT R170	Automotive Air Conditioning	3
<b>Total Units</b>		<b>15</b>

## Year 1

Fall Semester		Units/Hours
AT R110	Introduction to Automotive Technology	6
AT R115	Automotive Electrical Systems	6
	<b>Units/Hours</b>	<b>12</b>

## Year 2

Fall Semester		Units/Hours
AT R170	Automotive Air Conditioning	3
	<b>Units/Hours</b>	<b>3</b>
	<b>Total Units/Hours</b>	<b>15</b>

Upon successful completion of this program, students will be able to:

- Distinguish types of heating and air conditioning systems, theories of operation, practical diagnostic scenarios encountered in Automotive vehicles.
- Prepare vehicles for drivability systems evaluation and operation.
- Practice skills needed for industry and state certification tests.
- Diagnose and repair or replace HVAC systems and components with current tools.
- Practice environmental safety in accordance with applicable safety and environmental regulations governing the automotive industry.
- Integrate and analyze online service data, written repair material and technical service bulletins to repair and service a vehicle.
- Identify specialized automotive service tools, electronic diagnostic equipment and basic hand tools.