

# AUTOMOTIVE ENGINES CERTIFICATE

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12 Semester Credit Hours; Curriculum: 0020

This certificate exposes students to the principles and theory of automotive engines and provide opportunities for students to demonstrate the detailed operation and servicing of engine components. Emphasis is placed on measurement of engine components, disassembly and assembly of the cylinder head and the engine block. 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.

<b>Code</b>	<b>Title</b>	<b>Hours</b>
<b>Courses for a Certificate</b>		
ATA 102	Introduction To Automotive Technology	4
ATA 204	Basic Automotive Engines	4
ATA 205	Advanced Automotive Engines	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 internal engine components and the materials use.
5. Discuss engine oil, coolant, operation of intake/exhaust valve and valve repair.
6. Inspect engine block and cylinder heads for defects.