

# AT 160 - ENGINE REPAIR

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## Course Description

This course covers the theory, construction, and repair of the four stroke automotive engine. This will include the proper use of compression leakage and test equipment, precision measuring tools, special engine tools and valve grinding equipment. Group 2 course.

## Credit Hours

6

## Contact Hours

8

## Lecture Hours

4

## Lab Hours

4

## Required Prerequisites

AT 100-may be taken concurrently

## General Education Outcomes supported by this course

Critical Thinking - Direct

## Course Learning Outcomes

### Knowledge:

- Describe automotive systems and service procedures using current automotive system nomenclature.

### Application:

- Use the results of diagnostic strategies to service/tear down/repair an automotive engine.

### Integration:

- Apply problem solving strategies to resolve issues with automotive systems.

### Human Dimension:

- Discuss course information with others regarding engine performance.

### Caring - Civic Learning:

- Service a vehicle owned by a customer using recommended shop procedures.

### Learning How to Learn:

- Demonstrate mastery of automotive engines and related services as tested by the State of Michigan.