

AUT 110 : SMALL GAS ENGINES

Transcript title

Small Gas Engines

Credits

3

Grading mode

Standard letter grades

Total contact hours

90

Lab hours

90

Prerequisites with concurrency

AUT 106.

Course Description

Designed to study and apply the theory, operation, diagnoses and repair of small gas engines and their use in the world today. A self-paced course.

Course learning outcomes

1. Gather and record engine specifications for small gas engines during disassembly.
2. Demonstrate and apply safety protocols while working in the shop, around small gas engines, and handling hazardous materials.
3. Disassemble and re-assemble a small gas engine while displaying strong organizational skills.
4. Perform the use of precision measurement instruments when measuring small gas engine components.
5. Describe and apply diagnostic procedures to troubleshoot small gas engine performance issues.
6. Describe and practice safety procedures while working in an automotive shop environment.

Content outline

1. Small gas engine tool identification
2. Micrometer and precision measurement exercise
3. Gas engine diagnoses – mechanical
4. Gas engine diagnoses – electrical
5. Gas engine diagnoses – fuel system
6. Engine specification sheet
7. Gas engine disassemble and measurement
8. Gas engine assemble - restart
9. Sharpen and balance a mower blade

Required materials

Requires textbook and special gear; see syllabus for details.