

POWER TECHNOLOGY 10

Credits: 2

Purpose: To gain a general understanding of automotive and small engine operation, repair, and maintenance through theory and shop practice, as well as Arc, & Mig welding basics.

Outline:

- Safety in Auto Shop - Handling of materials, equipment and practices.
- Automotive Trade Tools and Measurement
- Overview of the Automobile
- The Internal Combustion Engine: fuel systems, lubrication, cooling, and exhaust.
- Small engine operation theory
- Small Engine disassembly, repair, assembly, and tune-up
- Basic electrical house wiring circuits
- Shadow Days ('shadow' an employee)

Skills Developed: Understanding of theory and practical “hands-on” skills, diagnostic skills developed.

Assignments: specific car research project, small engine repair

Expected Homework: 1 hour per week

Materials Required: Small engine (Briggs& Stratton) 4 stroke, coveralls, basic tool kit, safety goggles and gloves.

Additional Costs: \$30

Possible Field Trips: TBD