

Small Engine and Equipment Maintenance

Grade 9+

1/2 Credit

based on *Small Engine and Equipment Maintenance*, ©2010

Teaches the maintenance practices required to maintain residential and commercial power equipment. The course is designed to support entry-level school programs and operators of small engines. It covers tools and safety, history of small engines, small engine fundamentals, and more. Hands-on activities include repair projects at three levels of difficulty.

LightUnit 1	LightUnit 2	LightUnit 3	LightUnit 4	LightUnit 5
Tools and Safety Tools Safety History of Small Engines and Related Applications History of Outdoor Power Equipment Outdoor Power Equipment Applications	Small Engine Fundamentals Four-Stroke Cycle Theory Small Engine Systems	Outdoor Power Equipment Devices Mechanical Drive Systems Mechanical Switches Implements and Attachments OPE Maintenance Storage Basic Small Engine Maintenance and Repair Projects Changing Engine Oil Removing Debris from Engines Servicing Ignition Systems Servicing Air Cleaners Inspecting and Replacing Mufflers Replacing Mower-Deck Drive Belts Replacing Snow Thrower Shear Pins Replacing Snow Thrower Skid Shoes Engine Troubleshooting and General Maintenance Preparing Equipment for Long-Term Shortage	Intermediate Small Engine Maintenance and Repair Projects Overhauling Carburetors Replacing Flywheels and Flywheel Keys Servicing Flywheel Brakes Servicing Fuel Systems Servicing Governor Systems Servicing Rewind Starters	Advanced Small Engine Maintenance and Repair Projects Replacing Drive Discs Removing Carbon Deposits Servicing Electrical Systems Replacing Ignition Systems Servicing Valves