

ILLINOIS DEPARTMENT OF CENTRAL MANAGEMENT SERVICES
CLASS SPECIFICATION

SMALL ENGINE MECHANIC

POSITION CODE: 41150
Effective: 4-1-84

DISTINGUISHING FEATURES OF WORK:

Under general supervision, repairs, overhauls and adjusts fractional horsepower internal combustion engines, e.g., lawn mowers, garden tractors, chain saws; dismantles engine and locates and determines cause of problem; examines engine parts for excessive wear and defects; overhauls or replaces parts using a variety of hand tools; cleans and adjusts carburetor; performs minor repairs to ignition system and faulty electrical wiring; assures magnetos are providing adequate current; orders and maintains a small stock, e.g., batteries, points and plugs, oil, antifreeze, filters, etc.; may instruct or direct unskilled helpers in assisting in the routine repair, maintenance and servicing of small engines.

ILLUSTRATIVE EXAMPLES OF WORK:

1. Diagnoses, repairs and adjusts small internal combustion engines and associated machinery, e.g., lawn mowers, track conditions, street sweepers, chain saws, post hole diggers, weed trimmers and back pack blowers.
2. Overhauls fractional horsepower gasoline powered internal combustion engines; identifies and locates cause of problem by dismantling engine; using standard hand tools, grinds valves, replaces worn rings, rod bearings, etc.
3. Repairs and changes tires, greases and changes oil in mowers and small tractors; performs seasonal maintenance on small engine equipment; checks and services spark plugs and points.
4. Replaces batteries, battery cables, installs switches, fuses; repairs ignition system and faulty wiring; assures magnetos are providing adequate current and timing for ignition.
5. Maintains minimal stock of small engine parts, e.g., batteries, oil, antifreeze, filters, points and spark plugs; orders additional parts from distributor on an as needed basis; performs annual inventory and prepares simple inventory reports.

SMALL ENGINE MECHANIC (Continued)

6. Performs minor welding repairs on small engine equipment; uses acetylene and arc welders in performing repairs.
7. May instruct or direct unskilled helpers in the maintenance and repair of small engines.
8. Performs other duties as required or assigned which are reasonably within the scope of the duties enumerated above.

DESIRABLE REQUIREMENTS:

Education and Experience

Requires knowledge, skill and mental development equivalent to the completion of four years of high school.

Requires three years mechanical experience in the repair, overhaul and adjustment of fractional horsepower engines such as lawn mowers, portable weed trimmers, chain saws and other similar small engine powered equipment.

Knowledges, Skills and Abilities

Requires working knowledge of the use of tools, parts, methods and techniques of diagnosing faults and repairing small engines.

Requires ability to skillfully use a variety of hand and shop tools, welding equipment, bench grinders, socket and open end wrenches.

Requires ability to follow simple oral and written instructions, service manuals and literature.

Requires ability to instruct and direct unskilled helpers.

Requires ability to perform annual inventory.

Requires ability to prepare simple work reports.

Requires ability to complete work in a timely and efficient manner.