

COLTON JOINT UNIFIED SCHOOL DISTRICT

CLASS TITLE: EQUIPMENT MECHANIC

BASIC FUNCTION:

Under the direction of an assigned supervisor, perform skilled work in the repair, maintenance and preventive maintenance for District grounds and maintenance equipment; repair, rebuild and troubleshoot equipment malfunctions; perform routine maintenance to equipment as assigned.

REPRESENTATIVE DUTIES:

ESSENTIAL DUTIES:

Repair and maintain small gasoline and diesel engines used to power equipment including portable saws, string trimmers, lawn edger, riding lawnmowers, push mowers, generators, water pumps, air compressors, concrete grinders, cement mixers, welders, tractors and other power tools and equipment related to the grounds and maintenance department.

Repair or replace defective parts such as magnetos, water pumps, gears, pistons, carburetors, belts, blades, electric starts and other parts utilizing a variety of air and hand tools.

Test and inspect engines, electrical and charging systems, equipment, and hydraulic systems to determine malfunctions, perform tune-ups and ignition system adjustments; locate missing, defective or broken part, and to verify repairs; utilize diagnostic instruments including volt meters, hydraulic pressure testers and leak down testers; remove engines from equipment; position and bolt engines to repair bench or stands; replace engines as needed.

Grind, ream, re-bore, hone and re-tap parts to obtain specified clearances utilizing grinders, lathes, taps, reamers, boring machines and micrometers.

Inspect, adjust and reline brakes according to established guidelines.

Inspect equipment frames for wear and stress cracks; align and weld cracks or broken parts using welding clamps, drills, grinders, metal cutting saws, and torch, arc, or other welders.

Operate a variety of specialized equipment and hand and power tools related to work performed or assigned; repair, maintain and assure equipment is in safe and proper working condition; drive a vehicle to various sites to conduct work.

Operate light to medium duty equipment such as a front loader tractor with attachments, forklift and an aerial lift.

Prepare and maintain a variety of records related to work performed, supplies and materials, labor costs and others; maintain records of recyclables, used motor oil pick up and other hazardous waste materials.

Estimate time and material costs related for projects; maintain equipment shop inventory; purchase new and replacement inventory as needed; maintain relationships with suppliers.

OTHER DUTIES:

Assist other maintenance staff with special projects or work assignments as directed.

Perform related duties as assigned.

KNOWLEDGE AND ABILITIES:

KNOWLEDGE OF:

Methods, equipment, terminology and materials used in the mechanical maintenance and overhauling of grounds equipment including gasoline and diesel powered engines and equipment.

Requirements of maintaining, servicing and repairing grounds and maintenance equipment.

Operation and use of hand and power tools and equipment.

Principles and theories of basic electronics.

Health and safety regulations and procedures.

Proper methods of storing equipment, materials and supplies.

Methods, materials, tools and equipment used in welding.

Technical aspects of field of specialty.

Oral and written communication skills.

Basic record-keeping techniques.

ABILITY TO:

Perform skilled mechanical work involved in the maintenance and overhauling of grounds equipment including small gasoline and diesel powered engines and equipment.

Inspect, diagnose and repair mechanical defects on engines and specialized equipment.

Operate hand and power tools and equipment.

Work from blueprints, shop drawings and sketches.

Operate welding equipment to fabricate and repair a variety of metal parts and equipment.

Observe health and safety regulations and procedures.

Apply and explain rules, regulations, policies and procedures related to assigned activities.

Communicate effectively both orally and in writing.

Establish and maintain cooperative and effective working relationships with others.

Understand and follow oral and written instructions.

Maintain routine records.

EDUCATION AND EXPERIENCE:

Education: Graduation from high school or equivalent. Supplemental college or trade school coursework in engine repair is desired.

Experience: Three years of experience in the mechanical maintenance and overhauling of grounds equipment including small gasoline and diesel powered engines and equipment.

Any combination of training and/or experience that would likely provide the required knowledge and abilities may be considered.

LICENSES AND OTHER REQUIREMENTS:

Valid California driver's license.

WORKING CONDITIONS:

ENVIRONMENT:

Indoor and outdoor environment.
Driving a vehicle to conduct work.
Subject to noise from equipment operation.
Regular exposure to fumes, dust and odors.

PHYSICAL DEMANDS:

Lifting, carrying, pushing or pulling heavy objects.
Bending at the waist, kneeling or crouching.
Reaching overhead, above the shoulders and horizontally.
Dexterity of hands and fingers to operate power tools and equipment.
Seeing to perform equipment repairs.
Hearing and speaking to exchange information.
Climbing ladders.

HAZARDS:

Exposure to chemical fumes and vapors such as gasoline and diesel fuel.
Working around and with machinery having moving parts.
Working in a cramped or restrictive work chamber.
Working at heights on ladders or scaffolding.