

## MARINE MECHANIC

### DESCRIPTION OF WORK

This is journey level work in the maintenance, repair and rebuilding of gasoline, diesel engines and other marine equipment in the Department of Transportation, Ferry Division. Assignments are received from a Marine Mechanic Supervisor; however, employees in this class usually determine methods or procedures necessary to complete repairs. Work may be reviewed in progress, upon completion through trial runs, and/or for serviceability through actual use.

### EXAMPLES OF DUTIES PERFORMED

Repairs and overhauls diesel engines which involve the disassembly, inspection and re-assembly of valves, pistons, rings, connecting rods, crankshaft, camshaft, bearings, timing gears and chains, valve mechanisms, injectors, and pumps.

Repairs and adjusts reduction gears, clutches and couplings.

Replaces propeller shafts and bearings and aligns to the engines.

Repairs and overhauls fire pumps, bilge pumps and hydraulic pumps.

Repairs generators, starters and throttle control systems.

Tests, adjusts and repairs fuel injection pumps.

Repairs and overhauls sand pumps, winches with air over hydraulic controls and manual remote controls, and synchronizes twin engines turning sand pump.

Repairs and rebuilds gasoline engines, air-cooled and outboard motors.

Maintains records of all work performed.

Performs related duties as required.

### RECRUITMENT STANDARDS

#### Knowledges, Skills, and Abilities

Working knowledge of the operating principles of diesel and gasoline engines; reduction gears; hydraulic, air and electric control systems; and vacuum and pressure pumps.

Ability to determine the cause of and procedures to follow in repairing malfunctioning equipment.

Physical strength to move heavy objects and perform manual labor for considerable periods of time.

#### Minimum Training and Experience

Completion of grammar school and three years of progressive experience in the repair of diesel and gasoline engines, transmissions, hydraulic, air and electric systems, and components, preferably in the ship repair or shipbuilding industry; or an equivalent combination of training and experience.

Special Note - This is a generalized representation of positions in this class and is not intended to identify essential functions per ADA. Examples of work are primarily essential functions of the majority of positions in this class, but may not be applicable to all positions.