

**New York State Department of Civil Service**  
DIVISION OF CLASSIFICATION & COMPENSATION

Classification Standard

***Occ. Code 7447000***

**Marine Engineer, NS**

Brief Description of Class Series

Marine Engineers maintain, operate, and repair all engines and mechanical equipment on dredges, derrick boats, tugs and other vessels used to maintain water channels within the State's Canal system.

This position is classified only at the New York State Canal Corporation (Canal Corporation).

Distinguishing Characteristics

*Marine Engineer:* non-competitive; performs repairs and maintenance on all Canal Corporation vessel types; and assists in the dry-docking and renovation of floating equipment.

Illustrative Tasks

Operates and maintains engine rooms and other mechanical equipment.

- Operates the main and auxiliary engines, including related equipment such as diesel engines, compressors, hoists, pumps, swing and spud engines, generators, and plumbing.
- Supervises and performs routine maintenance such as oiling machinery, cleaning and painting engines and other equipment, lubricating steering gear, cleaning the engine room, and cleaning and replacing parts and filters.
- Keeps fuel tanks and air tanks filled.
- Checks, operates and adjusts oil and water gauges.
- Opens and closes valves on main and auxiliary pumps.
- Repairs engines and other machinery for all vessel systems including, but not

limited to steering, fuel propulsion, electrical, plumbing, and generators.

- Conducts periodic safety inspections of all mechanical equipment and machinery to ensure safe operating condition.

Oversees and performs complete overhauls of engines and other machinery and equipment used on vessels.

- Removes propellers, shafts, shaft beatings and rudders, and repairs or replaces them.
- Tears down and rebuilds engines, including regrinding or replacing valves and intake and exhaust seats, and removing pistons, piston rings, connecting rods, pumps, bearings and other mechanical parts for repair or replacement.
- Takes micrometer readings of shafts, beatings, cylinder liners, pistons and rings to determine wear, and decides whether to replace or repair them.
- Cleans engine parts and rebuilds engines.
- Checks alignment of crank and generator shafts and realigns them.
- Removes, disassembles, checks and repairs air starting valves.
- Cleans, overhauls and rebuilds fuel pumps, water pumps, fuel injectors, and other equipment.
- Maintains inventory and oversees parts for equipment repair.

Supervises subordinate staff.

- Trains staff to operate and maintain engines, machinery and related equipment.
- Assigns staff to maintenance, repair, operation, and inspection activities.
- Directs the overhaul and repair of engines and equipment.
- Evaluates repairs and maintenance work for competency and quality.
- Ensures that the work of staff complies with safety procedures.

Assists in the dry-docking and renovation of floating equipment when icing or weather conditions prevent work on the river.

Works in Upland Disposal Sites and operates construction equipment such as excavators and bulldozers.

### Minimum Qualifications

Non-competitive: four years of experience in the operation, maintenance and repair of diesel or internal combustion engines, and possession of a valid license to operate a motor vehicle in New York State.

**Note:** Classification Standards illustrate the nature, extent, and scope of duties and responsibilities of the classes they describe. Standards cannot and do not include all the work that might be appropriately performed by a class. The minimum qualifications above are those required for appointment at the time the Classification Standard was written. Please contact the Division of Staffing Services for current information on minimum requirements for appointment or examination.

09/2021

MK