



IDENTIFICATION

Department	Position Title	
Infrastructure	Small Vessel Machinery Operator	
Position Number	Community	Division/Region
33-12263	Fort Simpson	Marine Services / All Regions

PURPOSE OF THE POSITION

The Small Vessel Machinery Operator (SVMO) is responsible for the maintenance of and repairs to main propulsion machinery, generators and related machinery and equipment on any self-propelled inland vehicle and passenger ferry in the Government of Northwest Territories (GNWT) fleet.

SCOPE

The SVMO reports to the Marine Captain and is responsible for maintaining and repairing the ferry's engine(s) and onboard equipment in accordance with GNWT's Standing Orders and Transport Canada regulations. The incumbent performs routine checks and planned service and maintenance of the ferry in order to keep the ferry in safe working condition and fully operational during the scheduled day. Minor repairs may also need to be undertaken.

RESPONSIBILITIES

1. Monitors, maintains and repairs equipment, engines, auxiliary and safety equipment, motors, generators, compressors, water cooling and fuel systems and pumps on an inland ferry.

- Monitors and detects any unusual noises and vibrations, performs trouble-shooting on equipment and determines whether repairs are necessary and recommends spares and parts to be ordered.
- Performs routine maintenance such as oil changes, filter changes and cleans suction strainers.
- Greases machinery and working parts.
- Completes engine room, maintenance and performance logs and reports on breakdowns and accidents.

2. Performs electrical maintenance and repairs.

- Performs electrical maintenance on motors including changing over generators.
- Changes regulators, fuses, ballasts in light fixtures and switches.
- Changes light bulbs and indicator lights.
- Checks, adjusts and recalibrates equipment, as necessary.

3. Checks and maintains safety equipment.

- Checks fire pumps and fire extinguishers.
- Maintains anchor winch.

4. Performs other related duties.

- Maintains cleanliness of the engine room.
- Attends meetings as required to discuss mechanical problems and safety issues etc.
- Trains new SVMOs in day-to-day mechanical and procedural operations and instructs deck crews on equipment.
- Receives fuel and lubricants for the ferry, verifies quantities on board and loaded and signs for same. Complies at all times with Transport Canada and GNWT policies with regards to pollution prevention.
- Participates in safety and emergency drills.
- Diagnoses and, under the direction of GNWT management, carries out essential repairs including, as appropriate, plumbing, welding and cutting.
- As requested, estimates costs and recommends major repairs or whether to pull vessel out of service.
- Expected to be recalled early to begin refitting of the vessel prior to beginning of seasonal operations and winterizing vessel after haul-out.

WORKING CONDITIONS

Physical Demands

Work requires lifting of equipment, bending in awkward positions when repairing or performing general maintenance on the vessel.

Environmental Conditions

Incumbent may need to work outside through a full range of seasonal conditions and weather extremes. There can be exposure to fuel, fumes and oil in the engine room. Unless conditions are unsafe, the ferry must continue to operate.

Sensory Demands

The incumbent must be able to investigate and determine the nature of problems in the equipment as well as being able to service and repair same. Attention must be paid during the course of all work to the safety of co-workers.

Mental Demands

Well thought out approaches to equipment servicing and repair are required when performing all the duties to ensure efficient maintenance of the vessel equipment on a timely basis.

The incumbent must be prepared to sail with the ferry out of schedule for emergency vehicles, and may be called in to take over a shift at short notice, all of which can cause family disruption.

KNOWLEDGE, SKILLS AND ABILITIES

- Must have technical knowledge of marine vessels
- Ability to locate and diagnose mechanical problems
- Ability to interpret vessel specifications
- Knowledge of standard repair methods, tools, equipment and techniques
- Knowledge of all of the vessel equipment

Typically, the above qualifications would be attained by:

- SVMO - Small Vessel Machinery Operator Certificate or equivalent that meets Transport Canada requirements for the installed power;
- Valid Medical Examination Certificate;
- Valid Marine First Aid Certificate;
- Three years related experience (five years' experience is preferred).

ADDITIONAL REQUIREMENTS

Position Security (check one)

- ☐ No criminal records check required
- ☐ Position of Trust – criminal records check required
- ☐ Highly sensitive position – requires verification of identity and a criminal records check

French language (check one if applies)

- ☐ French required (must identify required level below)
Level required for this Designated Position is:
ORAL EXPRESSION AND COMPREHENSION
Basic (B) ☐ Intermediate (I) ☐ Advanced (A) ☐
READING COMPREHENSION:
Basic (B) ☐ Intermediate (I) ☐ Advanced (A) ☐
WRITING SKILLS:
Basic (B) ☐ Intermediate (I) ☐ Advanced (A) ☐
- ☐ French preferred

Aboriginal language: Choose a language

- ☐ Required
- ☐ Preferred