



**DECEMBER 2018
FLSA: EXEMPT**

BOAT CAPTAIN

This class specification indicates, in general terms, the type and level of work performed as well as the responsibilities of employees in this classification. The job functions described are not to be interpreted as being all-inclusive to any specific employee.

DEFINITION

Under general supervision or direction from senior scientific staff, command and navigate a 58-foot, 68 gross ton ocean vessel during approximately 80 to 90 days of field sample collection for the District's ocean monitoring program; oversee and provide for the safe operation, care, and maintenance of the vessel; lead and participate in the work of a crew performing vessel operation and maintenance; participate in beach or laboratory sample collection and other duties; and performs related work as required.

SUPERVISION RECEIVED AND EXERCISED

Receives general supervision or direction from the assigned supervisory and/or managerial staff. Exercises no direct supervision of staff. May exercise functional and technical leadership in assigned workgroups or teams.

CLASS CHARACTERISTICS

This classification is a stand-alone class and not part of a job series. Incumbents perform the full range of duties to command and navigate an ocean-going research vessel for field sampling purposes for the District's ocean monitoring program. The incumbent coordinates and oversees assigned vessel related activities, ensures the safety of the crew and guests, is responsible for full compliance of all safety and work practices onboard the vessel. Responsibilities may include guidance on programs and/or projects, selection of sample sites, safe operation of all winches, davits, nets or any equipment operated onboard the vessel or deployed from the vessel. Successful performance of the work requires the frequent use of tact, discretion, and independent judgment and knowledge of program, vessel safety, and departmental activities. Positions at this level receive only occasional instruction or assistance as new or unusual situations arise and are fully aware of the operating procedures and policies of the work unit.

EXAMPLES OF ESSENTIAL JOB FUNCTIONS (Illustrative Only)

The following essential job functions are typical for this classification. Incumbents may not perform all of the listed job functions and/or may be required to perform additional or different job functions from those set forth below to address business needs and changing business practices.

- Commands the District's twin-engine ocean vessel; keeps vessel's daily log; uses shipboard instrumentation to assure safe navigation and sampling station position accuracy.
- Ensures established safety precautions are adhered to, corrects unsafe work conditions/practices, and/or reports unsafe work conditions/practices to assigned supervisory or managerial staff.
- Works with senior staff to coordinate field sampling schedules, sampling logistics, and mobilization/de-mobilization for field sampling efforts to meet required ocean monitoring program objectives while ensuring crew safety and sample integrity.
- Acts as lead for vessel crew operations; oversee field operations and safe storage, deployment, and recovery of all sampling equipment.

- Oversees inspection of ocean vessel and equipment per regulating agencies requirements; prepare specifications for vessel overhaul, repair, modifications, and upkeep periods.
- Performs routine maintenance, including, but not limited to, maintaining lines, rigs, traps, and nets, filling fuel and water tanks, prepping/painting metal surfaces, washing down vessel and cleaning compartments, purchasing parts and supplies and maintaining vessel supplies, recommending major repairs or vessel modifications to accommodate new sampling requirements or equipment.
- Assists in maintenance of sampling equipment such as benthic grab samplers, trawl gear, and automated water quality profiling and current meter moorings and instrumentation.
- Participates in field and office activities to ensure study objectives and compliance activities are met.
- Performs periodic review of and maintain Vessel Standard Operating Procedure Manual and Vessel Safety Manual; prepares technical memoranda, as requested, on vessel operations and efficiency, budgetary requirements, and recommendations for equipment.
- When assigned to programs and/or projects, provides leadership and guidance to others. As a program and/or project leader, may direct, assign, train, monitor and review the work activities of team members; determines work priorities; oversees quality and quantity of work performed and ensures adherence to established procedures by instructing employees accordingly; is a reference to employees by possessing specialized skills; develops and implements work improvements.
- Attends and participates in professional group meetings; stays abreast of new trends and innovations in the field of vessel management; researches emerging products and enhancements and their applicability to District needs.
- Performs other duties as assigned.

QUALIFICATIONS

Knowledge of:

- USCG Navigation Rules and the execution of the rules for safe navigation and radio communications of vessels.
- Federal laws governing navigation of power-driven vessels in inland and coastal waters, including local navigation aids and hazards.
- General seamanship, including rules of the road, harbor regulations, first aid methods, and shipboard emergency procedures.
- Navigation instruments such as Plotter, Echo Sounder, Radar, Autopilot, VHF marine radio, navigation, station plotting, and positioning by visual triangulation, fathometer in DGPS, and radar.
- Potential hazards of working at sea on a moving platform with cables under tension and deploying heavy equipment, scientific instrumentation, and sampling gear overboard.
- Ocean vessel's crew performance to ensure safe sampling practices.
- Ocean vessels and related equipment, maintenance, operation and overhaul.
- Mechanical and electrical aptitude, and methods, tools, and equipment used in the operation and maintenance of power-driven vessels diesel engines, hydraulics, electrical, and auxiliary equipment.
- Basic principles and practices of Project Management.
- Budgeting and cost control methods.
- Word processing and spreadsheet software.
- Good written and verbal communication skills.
- General principles of leadership.
- Principles and practices of customer service and techniques for effectively communicating with the public, vendors, contractors and District staff.

Ability to:

- Command the navigation, safe operation, care, and maintenance of a 58-foot ocean monitoring vessel.
- Ensure ocean vessel systems are functioning and reliable through attention to detail and appropriate records keeping.

- Lead and participate in the work of a crew performing ocean monitoring vessel operation and maintenance, as well as laboratory and beach sample collection.
- Train others on proper work procedures.
- Ensure safe work practices and procedures in the workplace.
- Direct the work of others.
- Interpret and apply applicable federal, state, and local laws, codes, and regulations.
- Operate a motor vehicle to travel to various District sites, projects and/or meetings.
- Operate computers and computer programs, including basic word processing, spreadsheet, and navigational software.
- Communicate well, both orally and in writing.
- Establish and maintain effective working relationships with those contacted in the course of work.
- Swim.

Employment Standards:

Any combination of education and experience that provides the required knowledge, skills, and abilities may be qualifying as determined by OCSD.

1. High school diploma or G.E.D., supplemented by specialized training or coursework in marine safety, marine engineering or naval science, or a related field; AND
2. Five (5) years of work experience piloting a motor, oceanographic, or fishing vessel greater than 35 feet in length in coastal waters, including the deployment of heavy monitoring equipment.

Licenses and/or Certifications:

- Valid California Class C Driver's License
- Valid United States Merchant Marine, Master 100 Gross Ton, issued by United States Coast Guard.

Disaster Service Workers:

All Orange County Sanitation District employees are designated Disaster Service Workers through state law (California Government Code Section 3100-3109). Employment with the Orange County Sanitation District requires the affirmation of a loyalty oath to this effect. Employees are required to complete all related training as assigned, and to return to work as ordered in the event of an emergency.

PHYSICAL DEMANDS

Must possess sufficient mobility to work on an ocean-going vessel under all sea conditions, operate in confined spaces, as well as function in an office or laboratory setting, and travel to various District sites, projects and/or meeting; vision to read printed materials and a computer screen; color vision to identify chemical and biological solvents and substances; and hearing and speech to communicate in person and over the telephone. The job involves fieldwork requiring frequent walking in operational areas to identify problems or hazards. Finger dexterity is needed to access, enter and retrieve data using a computer keyboard or calculator and to operate above-mentioned tools and equipment. Positions in this classification bend, stoop, kneel, reach and climb to perform work and inspect work sites. Employees must possess the ability to lift, carry, push, and pull materials and objects weighing up to 35 pounds and heavier weights with the use of proper equipment.

ENVIRONMENTAL ELEMENTS

Varied environmental setting that will include exposure to wide-ranging sea and weather conditions as part of year-round work performed aboard an ocean-going vessel; may include standard office or laboratory setting; may be exposed to potentially hazardous chemicals, toxic materials, or waste and infectious materials; may work with or in or on the water. Employees may interact with upset staff and/or

public and private representatives and contractors in interpreting and enforcing departmental policies and procedures.