

**CLASS TITLE: RESEARCH VESSEL CAPTAIN
(DEM)**

**Class Code: 02373300
Pay Grade: 29A
EO: B**

CLASS DEFINITION:

GENERAL STATEMENT OF DUTIES: To be responsible for the operation of research vessels assigned to state fisheries and environmental monitoring programs, including the operation of a large fishing vessel (greater than 42 feet); and to do related work as required.

SUPERVISION RECEIVED: Receives general instructions from a superior with wide latitude for the exercise of initiative and independent judgement; work is reviewed for results obtained and conformance to policies, rules, regulations and/or instructions.

SUPERVISION EXERCISED: Exercises direct supervision over the work and safety of crew members and vessel maintenance personnel in the operation of the boat and equipment utilized in the performance of assigned duties.

ILLUSTRATIVE EXAMPLES OF WORK PERFORMED:

To direct the operation of assigned research vessels in fisheries and environmental monitoring surveys.

To direct the vessel crew while maintaining and repairing the vessel and its equipment including shut down and start up procedures, and conducts operations associated with environmental catastrophes including hurricanes, oil spills, fish kills, and the deployment of underwater video and acoustic equipment.

To observe employee performance to assess quality, problems, training needs and safety, and meets with crew to review and provide instructions on procedures and work methods.

To assist in the design and modification of shipboard operation systems, including the design and construction of specialized research and safety equipment.

To assume responsibility under conditions of United States Coast Guard licensing which is a requirement for this title.

To conduct engine, hydraulic and electrical repairs.

To be responsible for observing weather conditions and monitoring ice buildup on the vessel, and formulating decisions on safe operating conditions.

To operate sophisticated electronic navigational and vessel positioning equipment and shipboard mechanical and hydraulic systems.

To navigate the vessel using charts, compass, channel markers, Loran, global positioning satellite system and radar.

To fabricate repairs and uses nets, dredges and traps used in research.

To collect research data on fish and other marine species, process data samples, and input data.

To locate suitable pre-established fishing locations with precision and be able to collect hydrographic data at those positions.

To serve as safety officer responsible for the safety of the crew, passengers and the vessel.

To do related work as required.

REQUIRED QUALIFICATIONS FOR APPOINTMENT:

KNOWLEDGES, SKILLS AND CAPACITIES: A thorough working knowledge of the operation, maintenance and repair of powered marine vessels; a thorough working knowledge of the maintenance and operation of diesel and gasoline powered engines; a thorough working knowledge of marine and Coast

Guard regulations for vessel operation and navigation; a thorough knowledge of all current navigational equipment; a thorough working knowledge of mechanical shellfish dredging and transplanting techniques and finfish trawling techniques; a working knowledge of marine safety requirements; the ability to communicate and coordinate with subordinates and others orally and with written communications; a working knowledge of physical activity associated with marine fisheries research projects; the ability to perform precise navigation and locate positions within a very close tolerance; the ability to command operations at sea on large or small vessels; the ability to supervise a vessel crew; the ability to construct and repair dredges, chain bags, otter trawls, lobster and fish pots and other fishing gear as necessary; and related capacities and abilities.

EDUCATION AND EXPERIENCE:

Education: Such as may have been gained through: graduation from high school and successful completion of at least two years of college, with emphasis on biology, fisheries or marine technology. Applicable training received in the Armed Forces, formal Merchant Marine programs, or technical school with course work specific to the field of marine science or technology may be substituted for college requirements; and

Experience: Such as may have been gained through: two years as a United States Coast Guard licensed Captain for vessels of at least 100 tons, and two years experience as a first mate and possession of a valid Coast Guard vessel license for a vessel of the size operated by the pertinent program.

Or, any combination of education and experience that shall be substantially equivalent to the above education and experience.

SPECIAL REQUIREMENT: At the time of appointment must be physically qualified to perform assigned duties as evidenced by a physician's certificate. As a condition of employment, must possess and maintain a valid license issued by the United States Coast Guard to operate or navigate passenger carrying vessels of 100 gross tons or less for all the waters of the United States and its protectorates; must possess a valid radio telephone operator's permit issued by the Federal Communications Commission, and must maintain the aforementioned licensure and permit as a condition of employment.

Class Created: December 19, 1999

Editorial Review: 3/15/03