

## MARINE TECHNICIAN IV

### NATURE OF WORK IN THIS CLASS

Supervises and perform highly skilled work in the fabrication, installation, maintenance, repair and operation of marine research and related support equipment.

Employees in this class serves and exercises independent judgment in maintaining, upgrading, and the planning of the Marine Laboratory operations and facilities, and serves as the diving safety officer for the diving program.

### ILLUSTRATIVE EXAMPLES OF WORK *(These examples do not list all the duties which may be assigned; any one position may not include all the duties listed.)*

Supervises and participates in the operation of complex repairs of marine research equipment and related support equipment, including current meters, photometers, flow-meters, outboard motors, vehicles, boats, diving equipment, radios and the seawater system; schedules and oversees preventive maintenance activities.

Assists in designing special, experimental apparatus based on the description of desired results of the experiment; designs and fabricates wooden, metal, glass, mechanical and electrical devices; adapts existing apparatus to new uses.

Serves as diving safety officer; implements diving policies; assures compliance with safety standards of the American Academy of Underwater Sciences (AAUS) Program and other applicable standards; serves on the Diving Control Board (DCB); initiates changes in policy to improve diving safety; conducts diving safety training.

Serves as Dive Master for faculty and student diving expeditions; dives by means of scuba and snorkel to serve as safety diver for scientists and students engaged in underwater research activities.

Collects research data and specimens for research studies; uses special techniques for the live capture of marine animals; sets up recording and other scientific devices in the sea and at other locations; takes and records data; may perform routine analysis of data.

Operates marine laboratory boats; ensures that proper checkout procedures are followed; trains others in boat operations; schedules boats for research expeditions; drives a vehicle to transport boats to the launching area.

Maintains records of preventive maintenance and inventory of equipment and supplies; prepares reports as required.

Performs related duties as required.

**MINIMUM KNOWLEDGE, ABILITIES AND SKILLS**

Knowledge of the standard principles, methods, materials, equipment and practices used in the fabrication, installation, maintenance, repair and operation of marine research and related support equipment.

Ability to design and fabricate experimental apparatus.

Ability to supervise the work of others.

Ability to evaluate the diving program and make recommendations to improve operational safety.

Ability to instruct in diving by means of scuba and snorkel.

Ability to apply special techniques for the live capture of marine animals.

Ability to apply and enforce safe work practices on the job.

Ability to record data from research instruments.

Ability to maintain records and prepare reports.

Ability to communicate effectively.

Skill in the fabrication, installation, maintenance, repair and operation of marine research and related support equipment.

Skill in the safe operation of a standard motor vehicle, outboard motors, diesel motors, and sea crafts.

**MINIMUM EXPERIENCE AND TRAINING**

- A. Eight (8) years of progressively responsible experience in the fabrication, installation, maintenance, repair and operation of marine research and related support equipment, including two (2) years at the skilled level.
- B. Any equivalent combination of experience and training which provides the minimum knowledge, abilities and skills.

**NECESSARY SPECIAL QUALIFICATIONS**

- A. Possession of a valid driver's license.
- B. Possession of an underwater dive master's certification.
- C. Possession of an underwater diving instructor's certification.

**ESTABLISHED: FEBRUARY 1990**

**AMENDED: DECEMBER 2001**

**PAY GRADE: K**

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|------------------------|-------------------------|-----------------|------------------|
| <b>HAY EVALUATION:</b> | <b>KNOW HOW:</b>        | <b>D12</b>      | <b>175</b>       |
|                        | <b>PROBLEM SOLVING:</b> | <b>D3 (29%)</b> | <b>50</b>        |
|                        | <b>ACCOUNTABILITY:</b>  | <b>D1C</b>      | <b><u>57</u></b> |
|                        |                         |                 | <b>282</b>       |

**This standard revises and supercedes the standard established FEBRUARY 1990.**

  
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**LUIS R. BAZA**  
Executive Director  
Civil Service Commission