

Marine Advanced Technology Education

A project of the National Science Foundation

Marine Technician Survey

Name: _____

Address: _____

What is your job title? _____

Phone Number: _____ Fax: _____

Email: _____

Supervisor's Name: _____

Please return the survey as soon as you have a chance in the envelope provided.

The information below will be incorporated into a "typical" profile of a marine technician and will not be linked to you by name.

1. How long have you held your current position? _____

2. What did you do prior to becoming a marine technician?

3. What educational degrees do you hold?

4. What types of special training do you have? (CPR, SCUBA, electronics certificate, etc.)

5. What type of additional knowledge or skills would you be interested in learning?

6. Do you feel that the following skills are important for your position?
 (1 not important, 2 not a major concern, 3 essential, 4 extremely important)

General Skills

- 1 2 3 4 Reading – technical manuals, procedures
- 1 2 3 4 Math – Algebra level
- 1 2 3 4 Math – Trigonometry
- 1 2 3 4 Math – Calculus or higher
- 1 2 3 4 Listening – following instructions
- 1 2 3 4 Writing - reports
- 1 2 3 4 Oral Communication – sharing information, instructing others
- 1 2 3 4 Problem Solving
- 1 2 3 4 Computer Literacy – word processing, spread sheets
- 1 2 3 4 Working with others
- 1 2 3 4 Working with minimal supervision
- 1 2 3 4 Marine safety
- 1 2 3 4 Basic navigation
- 1 2 3 4 Understanding the marine, coastal or estuarine environment
- 1 2 3 4 Understanding a variety of cultures
- 1 2 3 4 Knowledge of a foreign language

Technical Skills

- 1 2 3 4 Working with technical documents (blueprints, wiring diagrams, etc.)
- 1 2 3 4 Electronics
- 1 2 3 4 Hydraulics
- 1 2 3 4 Computer based systems used in controls, and operations
- 1 2 3 4 Computer based systems used in navigation (GPS, etc.)
- 1 2 3 4 Advanced computer skills – drafting (CAD)
- 1 2 3 4 Advanced computer skills – Geographic Information Systems (GIS)
- 1 2 3 4 Fiber optics
- 1 2 3 4 Outboard motor repair
- 1 2 3 4 Diesel engine repair
- 1 2 3 4 Welding
- 1 2 3 4 Machining
- 1 2 3 4 Construction
- 1 2 3 4 Refrigeration
- 1 2 3 4 Pneumatics
- 1 2 3 4 Heating, ventilation and air conditioning
- 1 2 3 4 Motor speed controls
- 1 2 3 4 Electrical power generation & distribution
- 1 2 3 4 Laboratory skills - quantitative chemistry
- 1 2 3 4 Laboratory skills – biological (microscopes, taxonomy, etc.)
- 1 2 3 4 Laboratory skills – geological (soil analysis, well logging, etc.)
- 1 2 3 4 Field sampling
- 1 2 3 4 Drawing and interpreting maps
- 1 2 3 4 Capability of thinking 3-dimensionally and visualizing objects in space
- 1 2 3 4 Hazardous materials
- 1 2 3 4 Oil spill cleanup

Operational Skills

- 1 2 3 4 Shipboard operations experience

- 1 2 3 4 Small boat handling
- 1 2 3 4 Line handling
- 1 2 3 4 Operation of deck machinery
- 1 2 3 4 Scuba diving
- 1 2 3 4 Advanced diving (mixed gas)
- 1 2 3 4 USCG licensed deck certification
- 1 2 3 4 USCG licensed engine room certification
- 1 2 3 4 Open ocean/overseas experience
- 1 2 3 4 Oil rig/platform experience
- 1 2 3 4 Prior US Navy or US Coast Guard operations experience

Health

- 1 2 3 4 Ability to pass a pre-employment medical examination
- 1 2 3 4 Physical fitness

Are there technical or general skills missing from this list? Yes No

If yes, please list _____

7. During the October 23 workshop we will be defining the job functions for which you are responsible and then describe the actual tasks in detail that go with each job function. I sent you a DACUM chart for Fishery Technician in the last mailing that you can refer to. In this mailing I'm enclosing a DACUM chart called "Occupation Cluster: Forest Technician." Please refer to the job functions listed in A-F on this chart. Please take a try at constructing a list of 5-10 areas that would describe your job functions. Feel free to describe them in more than 2-3 words if necessary.

**Add equipment list.