

# Work Processes Schedule

## MARINE-SERVICES TECHNICIAN

**RAPIDS: 0946N**

O\*NET/SOC: 49-9071.00

REVISION DATE: 12/2014

Determines extent of repairs or modifications needed for installation of equipment, accessories, and hardware. Removes flaked paint, barnacles, and encrusted debris from hulls of vessel. Removes damaged sections from wooden or fiberglass vessels. Applies fiberglass repair techniques, prepares and replaces wooden sections. Mixes and applies paint or gel coat. Tests systems to diagnose malfunctions. Fabricates and installs replacement parts. Installs and tests steering gear, sanitation and refrigeration systems, cabinetry, electrical systems and accessories, hardware, and trim.

### Applicable Ratings/MOS

USMC MOS None

USCG None

USN HT

### Related Instruction

Any trade related schools/courses totaling 432 hours

### Additional Requirement

None

Total Hours: **6000**

Skill	Description	Hours
A	<p><b>FUNDAMENTALS</b></p> <p>(Demonstration of knowledge required in all areas)</p> <ol style="list-style-type: none"> <li>1. Safety Precautions Fundamentals</li> <li>2. First Aid and Rescue</li> <li>3. Quality Assurance Administration Fundamentals</li> <li>4. Quality Assurance Program Fundamentals</li> <li>5. Levels of Control Fundamentals</li> <li>6. Hearing Conservation Program Fundamentals</li> <li>7. Hazardous Material Control and Management-(HMC&amp;M) Program Fundamentals</li> <li>8. Respiratory Protection Program Fundamentals</li> <li>9. Sight Conservation Program Fundamentals</li> <li>10. General Administration (Log, Record and File Maintenance)</li> <li>11. Technical Administration (Publications and Technical Manuals)</li> <li>12. Logistics</li> <li>13. Shop Fundamentals:               <ul style="list-style-type: none"> <li>Electrical Fundamentals , Lead Control Program , Boat Repair Administration , Preplanning and Work Acceptance , Epoxy and Adjuncts , Pour-In-Place Polyurethane , Buoyancy Foam , Fairing Compounds , Non-Skid , Low Pressure Air , Fiberglass and Epoxy Repair , Use of Rubber , Potting of Plugs and Encapsulation of Cable End , Manufacture Plastic Plaque , Plexiglas/Lexan Forming , Polyester Syntactic Void Filling , Teflon Coating , Plastisol Coating</li> </ul> </li> </ol>	500
	<p><b>EQUIPMENT</b></p> <p>safe operation and upkeep of shop equipment. The Equipment List is representative of tools and machinery typically found in the Work-Center associated with this trade.</p> <ol style="list-style-type: none"> <li>1. Blast Cleaning Machine, Hydraulic</li> <li>2. Boat Transport System, Long Fork</li> <li>3. Grinder, Angle</li> <li>4. Gun, Needle, Pneumatic</li> <li>5. Jiffy Mixer</li> <li>6. Marine Travel Lift</li> <li>7. Spray Gun, Pneumatic</li> <li>8. Closed Air Respiration System</li> <li>9. Saw, Reciprocating</li> <li>10. Saw, Chop, Power</li> <li>11. Saw, Band, Portable</li> </ol>	

<b>B</b>	<ul style="list-style-type: none"> <li>12. Sander, Orbit, Pneumatic</li> <li>13. Vacuum, Hepa</li> <li>14. Wrench, Impact</li> <li>15. Blast Cleaning Machine, Sand</li> <li>16. Paint Spray Booth</li> <li>17. Drill Press</li> <li>18. Engraving Machine, Computerized</li> <li>19. Freezer, Ultra Low Temperature</li> <li>20. Grinding/Buffering Machine, Pedestal, Floor</li> <li>21. Hoist, Monorail, Electric</li> <li>22. Jointer, Planer, Woodworking, Floor</li> <li>23. Table, Down Draft, Grinding</li> <li>24. Laminating Machine</li> <li>25. Mill, Rubber</li> <li>26. Multimeter</li> <li>27. Mixer, 944F</li> <li>28. Mixer, Paint, Dual Shaker, Electric</li> <li>29. Megger</li> <li>30. Oven, Burnout</li> <li>31. Press, Hydraulic</li> <li>32. Press, Platen, Floor</li> <li>33. Saw, Arbor, Tilting, Floor</li> <li>34. Saw, Table</li> <li>35. Saw, Band, Vertical</li> <li>36. Sander, Disc and Belt, Floor</li> <li>37. Sander, Disc and Spindle, Woodworking</li> <li>38. Marine Travel Lift</li> <li>39. Boat Transport System</li> </ul>	800
<b>C</b>	<p><b>MAINTAIN AND MANAGE RHIB INVENTORY</b></p> <p>(Demonstration of knowledge required in all areas)</p> <ul style="list-style-type: none"> <li>1. Conduct RHIB Handling Training</li> <li>2. Inflatable Tube Collars</li> <li>3. Maintain RHIB Ready For Issue</li> <li>4. Perform RHIB Repairs</li> </ul>	200
<b>D</b>	<p><b>HULL AND SUPERSTRUCTURE MAINTENANCE</b></p> <p>(Demonstration of knowledge required in all areas)</p> <ul style="list-style-type: none"> <li>1. Hydraulic Hull Blasting</li> <li>2. Hardware, Paint and Non-Skid Removal</li> <li>3. Prime, Paint and Non-Skid</li> <li>4. Floatation Foam</li> <li>5. Composite Core Construction (Sandwich)</li> <li>6. Fiberglass (Minor) Hull</li> <li>7. Fiberglass (Major) Hull</li> <li>8. Wood Hull</li> <li>9. Aluminum Hull</li> <li>10. Epoxy Repair To Hull and Superstructure</li> <li>11. Install Sound Dampening Material</li> <li>12. Repair &amp; Replace Rubber Seals &amp; Gaskets</li> <li>13. Repair &amp; Replace Special Hull Treatment Mat (Tiles)</li> <li>14. Bow Sonar Dome Repair</li> <li>15. Repair Special Hull Treatment (SHT)</li> <li>16. Polyester Syntactic Void Filling</li> </ul>	2500
<b>E</b>	<p><b>MANUFACTURE AND REPAIR MISCELLANEOUS COMPONENTS</b></p> <p>(Demonstration of knowledge required in all areas)</p> <ul style="list-style-type: none"> <li>1. AN/BQS-15 Acoustic Window Repair</li> <li>2. Towed Array Fairing</li> <li>3. Anti-Terrorist Security Hatch Covers</li> <li>4. Co2 Overboard Diffusers</li> <li>5. Install Rubber and Neoprene Bumpers, Stops and Rollers</li> <li>6. Molded Plugs (Portsmouth Plugs)</li> <li>7. Plaques (Plastic)</li> <li>8. Polycarbonate Lexan Windshields</li> <li>9. Rubber Stamps</li> <li>10. Plexiglas Manufacturing/Forming</li> <li>11. Splash Guards and Spray Shields</li> <li>12. Plaque Mold Manufacturing</li> <li>13. Manufacture and Repair of Rubber Items</li> <li>14. GRP Sonar Dome Fairing Strip Installation</li> <li>15. Edge Beading</li> <li>16. Sheer Fender</li> <li>17. Fabricate Molds</li> </ul>	1250

<b>F</b>	<p><b>MAST AND ANTENNA REFURBISHMENT</b></p> <p>(Demonstration of knowledge required in all areas)</p> <ol style="list-style-type: none"> <li>1. Fiberglass Repair</li> <li>2. Manufacture and Repair Ice Caps</li> <li>3. Preserve Masts, Antennas and Periscopes</li> <li>4. Repair and Replace Closure Seals</li> <li>5. Replace Submarine Antenna Radar Absorbent Material</li> <li>6. Epoxy Repairs</li> </ol>	500
<b>G</b>	<p><b>PERFORM MISCELLANEOUS SERVICES</b></p> <p>(Demonstration of knowledge required in all areas)</p> <ol style="list-style-type: none"> <li>1. Plastic and Metal Engraving</li> <li>2. Plastisol Coating</li> <li>3. Sandblast Components</li> <li>4. Teflon Coating</li> </ol>	250