AUTOMOBILE MECHANIC

RAPIDS: 0023D  O*NET/SOC: 49-3023.01  REVISION DATE: 09/2019

TRADE DESCRIPTION: Repair automobiles, trucks, buses, and other vehicles. Master Mechanics repair virtually any part on the vehicle or specialize such as the transmission system.

TASK PERFORMANCE: Demonstrate knowledge and skills for qualifying as Journeyman. Applicable Job Qualification Requirements will be used as a guide in performing tasks and demonstrating knowledge in the following skill areas. Actual work time must be recorded in the Work Experience Log; each skill area must be completed.

Applicable Ratings/MOS/NEC

USMC MOS: 2147, 3521, 3524, 3526, 6073

USCG: MK

USN: AD, AS, CM


Related Instruction:

Trade related On-The-Job-Training (OJT) or Any trade related schools/courses totaling 288 or more hours.

Additional Requirement:

None

Total Hours: 4000

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<tr>
<th>Skill</th>
<th>Description</th>
<th>Hours</th>
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<tbody>
<tr>
<td>A</td>
<td>SHOP AND WORK AREA</td>
<td>1000</td>
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</table>
--- Follow checklists to ensure all important parts are examined, including belts, hoses, steering systems, spark plugs, brake and fuel systems, wheel bearings, and other potentially troublesome areas.
--- Confer with customers to obtain descriptions of vehicle problems and to discuss work to be performed and future repair requirements.
--- Review work orders and discuss work with supervisors.
--- Plan work procedures, using charts, technical manuals, and experience.
--- Maintain cleanliness of work area.

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<th>B</th>
<th>TROUBLESHOOTING AND INSPECTION</th>
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<td></td>
<td>Test drive vehicles and test components and systems, using equipment such as infrared engine analyzers, compression gauges, and computerized diagnostic devices.</td>
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<td>Examine vehicles to determine extent of damage or malfunctions.</td>
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<tr>
<th>C</th>
<th>SCHEDULED AND UNSCHEDULED MAINTENANCE</th>
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<tr>
<td></td>
<td>Repair, reline, replace, and adjust brakes.</td>
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<td>Perform routine and scheduled maintenance services, such as oil changes, lubrications, and tune-ups.</td>
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<td>Repair and service air conditioning, heating, engine cooling, and electrical systems.</td>
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<td>Test and adjust repaired systems to meet manufacturers' performance specifications.</td>
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<td>Repair or replace parts such as pistons, rods, gears, valves, and bearings.</td>
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<td>Rewire ignition systems, lights, and instrument panels.</td>
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<td>Repair manual and automatic transmissions.</td>
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<td>Install and repair accessories, such as radios, heaters, mirrors, and windshield wipers.</td>
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<td>Repair or replace shock absorbers.</td>
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<td>Replace and adjust headlights</td>
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<td>Repair radiator leaks.</td>
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<td>Align vehicles' front ends.</td>
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<td>Tear down, repair, and rebuild faulty assemblies, such as power systems, steering systems, and linkages.</td>
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<td>Disassemble units and inspect parts for wear, using micrometers, calipers, and gauges.</td>
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<td>Overhaul or replace carburetors, blowers, generators, distributors, starters, and pumps.</td>
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Rebuild parts, such as crankshafts and cylinder blocks.