

2023 Idaho Automotive Maintenance and Light Repair Criticality Survey (28)	
CONTENT STANDARD 1.0: PROFESSIONAL ORGANIZATIONS AND LEADERSHIP	
Performance Standard 1.1: Effective Leadership and Participation in Career Technical Student Organizations (CTSO) and Professional Associations	
Q2. 1.1.1 Explore the role of professional organizations and/or associations in the automotive repair industry.	1.54
Q3. 1.1.2 Participate in content-aligned CTSO.	1.54
Q4. 1.1.3 Participate in a CTSO event at the local level or above.	1.50
Q5. 1.1.4 Engage in career exploration and development through CTSO participation.	1.57
CONTENT STANDARD 2.0: SAFETY PROCEDURES FOR LAB AND TOOLS	
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Q6. 2.1.1 Identify and use proper placement of floor jacks and jack stands.	2.70
Q7. 2.1.2 Identify and use proper procedures for safe vehicle lift operation.	2.78
Q8. 2.1.3 Identify proper ventilation requirements for working within the lab/shop area.	2.22
Q9. 2.1.4 Identify marked safety areas.	2.07
Q10. 2.1.5 Identify the location and the types of fire extinguishers and other fire safety equipment.	2.15
Q11. 2.1.6 Identify the location of and procedures for using eye wash station(s).	2.15
Q12. 2.1.7 Identify the location of the posted evacuation routes.	1.96
Q13. 2.1.8 Comply with the required personal protective equipment (PPE) requirements (e.g., safety glasses, ear protection, gloves, shoes).	2.33
Q14. 2.1.9 Secure hair and jewelry for lab/shop activities.	2.48
Q15. 2.1.10 Identify safety aspects of supplemental restraint systems (SRS), electronic brake control systems, and hybrid vehicle high voltage circuits (e.g., high intensity discharge (HID) lamps, ignition systems, injection systems).	2.30
Q16. 2.1.11 Locate and interpret safety data sheets (SDS).	1.78
Q17. 2.1.12 Handle, store, and dispose of hazardous waste and materials (e.g., batteries, oil, diesel, gasoline, antifreeze).	2.04
Performance Standard 2.2: Tool and Equipment Identification and Use	
Q18. 2.2.1 Identify tools and equipment and their appropriate uses in automotive maintenance and repair.	2.48
Q19. 2.2.2 Identify standard and metric fasteners.	2.41
Q20. 2.2.3 Describe thread repair, identifying the required tools needed to perform the repair.	2.07
Q21. 2.2.4 Demonstrate the safe handling and appropriate use of tools and equipment.	2.41
Q22. 2.2.5 Describe use of, read, and interpret precision measuring tools (e.g., micrometer, dial-indicator, digital/dial-caliper).	2.19
Q23. 2.2.6 Demonstrate cleaning, storage, and maintenance of tools and equipment.	2.19
CONTENT STANDARD 3.0: BASIC VEHICLE SERVICE	
Performance Standard 3.1: Vehicle Service Information	
Q24. 3.1.1 Reference vehicle service information, such as fluid type, vehicle service history when available, service precautions, technical service bulletins, and recalls, including for vehicles equipped with advanced driver assistance systems (ADAS).	2.37
Q25. 3.1.2 Retrieve and record diagnostic trouble codes (DTC), onboard diagnostics (OBD) monitor status, and freeze frame data, and clear codes and data when directed.	2.41
Q26. 3.1.3 Locate the vehicle identification number (VIN) and production data code.	2.67
Q27. 3.1.4 Interpret VIN information.	1.96
Q28. 3.1.5 Identify additional vehicle information labels (e.g., tires, emissions).	2.07
Q29. 3.1.6 Reset maintenance notifications/reminders after services are completed.	2.41
Q30. 3.1.7 Verify and interpret vehicle warning indicators (e.g., messages, lights).	2.33
Q31. 3.1.8 Identify policy requirements for return of a vehicle to customer (e.g., floor mats, steering wheel cover).	2.33
CONTENT STANDARD 4.0: ENGINE REPAIR	

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Q33. 4.1.2 Install engine covers, using vehicle-specific gaskets, seals, and sealers as required.	2.41
Q34. 4.1.3 Describe the function of the timing belt/chain.	2.30
Q35. 4.1.4 Inspect, replace, and adjust drive belts (e.g., alternator, power steering pump, air conditioning, stretch-fit serpentine belts), tensioners, and pulleys, checking pulley and belt alignment.	2.26
Q36. 4.1.5 Inspect engine mounts.	2.15
Q37. 4.1.6 Identify service precautions related to service of the internal combustion engine of a hybrid vehicle.	2.15
Q38. 4.1.7 Identify engine block assembly components and configurations.	2.26
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Q41. 4.2.1 Identify lubrication and cooling system components and configurations.	2.31
Q42. 4.2.2 Perform cooling system pressure check (i.e., inspect and test radiator, coolant recovery tank, heater core, galley plug) to identify leaks.	2.19
Q43. 4.2.3 Verify the operation of cooling system (e.g., leak, fans, heater) after service or repair.	2.23
Q44. 4.2.4 Inspect and test pressure cap.	2.27
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Q46. 4.2.6 Identify causes of engine overheating.	2.12
Q47. 4.2.7 Identify type of water pumps (e.g., gear-driven, belt driven, chain driven, electric).	1.92
Q48. 4.2.8 Remove, inspect, and replace thermostat and gasket/seal.	2.12
Q49. 4.2.9 Inspect and test coolant.	2.19
Q50. 4.2.10 Drain and recover coolant.	2.23
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Q52. 4.2.12 Perform oil and filter change.	2.81
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Q144. 9.1.3 Interpret wiring diagrams to trace electrical/electronic circuits.	2.00
Q145. 9.1.4 Demonstrate proper use of digital multi-meter (DMM) when measuring source voltage, voltage drop (including grounds), current flow, and resistance.	2.13
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