



ASE Task Correlation Checklist

ASE Task Checklist—Strategy-Based Automotive Diagnosis Series			
Only tasks that apply to at least one of the three videos are listed.	<i>Electrical Diagnosing</i> Item #52180	<i>OBD-II Code Diagnosing</i> Item #52181	<i>ABS and TCS Code Diagnosing</i> Item #52182
ENGINE PERFORMANCE			
General Diagnosis			
Task 1: Verify driver's complaint, perform visual inspection, and/or road test vehicle; determine needed action.	X	X	X
Task 2: Research applicable vehicle and service information, such as engine management system operation, vehicle service history, service precautions, technical service bulletins, and service campaigns/recalls.	X	X	X
Task 9: Diagnose engine mechanical, electrical/electronic, fuel, and ignition problems with an oscilloscope, engine analyzer, and/or scan tool; determine needed action.	X	X	X
Task 16: Read and interpret electrical schematic diagrams and symbols.	X	X	X
Computerized Engine Controls (CEC) Diagnosis and Repair (Including OBD-II)			
Task 1: Retrieve and record diagnostic trouble codes (DTCs), OBD-II monitor status, and freeze-frame data.	X	X	X
Task 2: Diagnose the causes of emissions or driveability problems with stored or active DTCs.		X	X
Task 3: Diagnose the causes of emissions or driveability problems without DTCs.	X	X	X
Task 4: Use a scan tool, digital multimeter (DMM), or digital storage oscilloscope (DSO) to inspect or test CEC system sensors, actuators, circuits, and powertrain/engine control module (PCM/ECM); determine needed repairs.	X	X	X
Task 5: Measure and interpret voltage, voltage drop, amperage, and resistance using DMM readings.	X	X	X
Task 6: Test, remove, inspect, clean, service, and repair or replace power and ground distribution circuits and connections.	X	X	X
Task 8: Diagnose driveability and emissions problems resulting from failures of interrelated systems (such as cruise control, security alarms/theft deterrent, torque controls, traction controls, torque management, A/C, and non-OEM-installed accessories).		X	X



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Task 9: Clear DTCs, run all OBD-II monitors, and verify the repair.	x	x	x
ELECTRICAL			
General Electrical/Electronic System Diagnosis			
Task 1: Check voltages and voltage drops in electrical/electronic circuits; interpret readings and determine needed repairs.	x	x	x
Task 2: Check current flow in electrical/electronic circuits and components; interpret readings and determine needed repairs.	x	x	x
Task 3: Check continuity and resistances in electrical/electronic circuits and components; interpret readings and determine needed repairs.	x	x	x
Task 4: Check electronic circuit waveforms; interpret readings and determine needed repairs.	x	x	x
Task 5: Use scan-tool data and/or DTCs to diagnose electronic systems; interpret readings and determine necessary action.	x	x	x
Task 6: Find shorts, grounds, opens, and resistance problems in electrical/electronic circuits; determine needed repairs.	x	x	x
Task 8: Inspect, test, and replace fusible links, circuit breakers, fuses, diodes, and current-limiting devices.	x	x	x
Task 9: Read and interpret electrical schematic diagrams and symbols.	x	x	x
Task 10: Diagnose failures in the data bus communications network; determine needed repairs.	x	x	x
Instrument Cluster and Driver Information Systems Diagnosis and Repair			
Task 4: Diagnose the cause of constant, intermittent, or no operation of warning lights, indicator lights, audible warning devices, and other driver information systems; determine needed repairs.		x	x
Task 5: Inspect, test, and repair or replace bulbs, sockets, connectors, switches, relays, sensors, timers, wires, gauges, sending units, sensors, electronic components, and controllers of electronic instrument clusters and driver information system circuits.	x	x	x



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Body Electrical Systems Diagnosis and Repair			
Task 1: Diagnose operation of comfort and convenience accessories and related circuits (such as power windows, power seats, pedal height, power locks, truck locks, remote start, moonroof, sunroof, sunshade, remote keyless entry, voice activation, steering wheel controls, backup camera, park assist, and auto-dimming headlamps); determine needed repairs.	x		x
Task 2: Inspect, test, and repair or replace components, connectors and wiring of comfort and convenience accessories.	x		x
Task 9: Diagnose operation of safety systems and related circuits (such as airbags, seat belt pretensioners, occupancy classification, wipers, washers, collision avoidance, passive speed control, heads-up display, park assist, and backup camera); determine needed repairs.	x		x
Task 10: Inspect, test, and repair or replace components, connectors, and wiring of safety systems.	x		x
BRAKES			
Electronic Brake Control Systems: Antilock Brake System (ABS), Traction Control System (TCS), and Electronic Stability Control System (ESC) Diagnosis and Repair			
Task 1: Follow manufacturers' service and safety precautions when inspecting, testing, and servicing electronic brake control systems and hydraulic, electrical, and mechanical components.			x
Task 2: Diagnose poor stopping, wheel lockup, false activation, pedal feel and travel, pedal pulsation, and noise concerns associated with the electronic brake control system; determine needed repairs.			x
Task 3: Observe electronic brake control system indicator light(s) at start-up and during road test; determine if further diagnosis is needed.			x
Task 4: Diagnose electronic brake control system, electronic control(s), components, and circuits using onboard diagnosis and/or recommended test equipment; determine needed repairs.			x
Task 6: Remove and install electronic brake control system components following manufacturers' procedures and specifications; observe proper placement of components and routing of wiring harness.			x



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Task 7: Follow manufacturers' recommended procedures to test, diagnose, and service electronic brake control systems (such as speed, yaw, steering angle, brake pedal position, etc.) and circuits (including output signal, resistance, shorts to voltage/ground, and frequency data).			x
Task 8: Diagnose electronic brake control system braking concerns caused by vehicle modifications (wheel/tire size, curb height, final drive ratio, etc.) and other vehicle mechanical and electrical/electronic modifications (communication, security, and radio, etc.).			x
Task 9: Repair wiring harness and connectors following manufacturers' procedures.	x	x	x