

NATEF AUTOMOTIVE TASK LIST
AUT 262 – ADVANCED DIAGNOSIS AND REPAIR

TERM: _____

SID: _____

INSTRUCTOR: _____

NAME: _____

**For every task in Advanced Diagnosis and Repair the following safety requirement must be strictly enforced:
Comply with personal and environmental safety practices associated with clothing; eye protection; hand tools; power
equipment; proper ventilation; and the handling, storage, and disposal of chemicals/materials in accordance with
local, state, and federal safety and environmental regulations.**

<u>Task Code</u>	<u>Task</u>	<u>Priority</u>
<u>A. General Engine Diagnosis</u>		
8.B.1	Retrieve and record diagnostic trouble codes, OBD monitor status and freeze frame data; clear codes when applicable.	P1
8.B.2	Diagnose the causes of emissions or drivability concerns with or stored diagnostic trouble codes, obtain graph and interpret scan tool data.	P1
8.B.3	Diagnose emissions or drivability concerns without stored diagnostic trouble codes; determine necessary action.	P1
8.B.4	Check for module communication (including CAN/BUS systems) errors using a scan tool.	P2
8.B.5	Inspect and test computerized engine control system sensors, powertrain engine control module (PCM/ECM), actuators, and circuits using a graphing multimeter (GMM)/digital storage oscilloscope (DSO); perform necessary action.	P1
8.B.6	Access and use service information to perform step-by-step diagnosis.	P1
8.B.7	Diagnose drivability and emissions problems resulting from malfunctions of interrelated systems (cruise control, security alarms, suspension controls, traction controls, A/C, automatic transmissions, non-OEM-installed accessories, or similar systems); determine necessary action.	P3
8.B.8	Perform active tests of actuators using a scan tool; determine necessary action.	P1
8.B.9	Describe the importance of running all OBDII monitors for repair verification.	P1
<u>E. Emission Control Systems Diagnosis and Repair</u>		
8.E.1	Diagnose oil leaks, emissions and drivability problems caused by in the positive crankcase ventilation (PCV) system; determine necessary action.	P2
8.E.2	Inspect, test and service positive crankcase ventilation (PCV) filter/breather cap, valve, tubes, orifices, and hoses; perform necessary action.	P2
8.E.3	Diagnose emissions and drivability concerns caused by the exhaust gas recirculation (EGR) system; determine necessary action.	P1
8.E.4	Inspect, test, service and replace components of the EGR system, including EGR tubing, exhaust passages, vacuum/pressure controls, filters and hoses; perform necessary action.	P1

8.E.5	Inspect and test electrical/electronic sensors, controls, and wiring of exhaust gas recirculation (ERG) systems; determine necessary action.	P2
8.E.6	Diagnose emissions and drivability problems caused by the secondary air injection or catalytic converter systems; determine necessary action.	P2
8.E.7	Inspect and test mechanical components of secondary air injection systems; perform necessary action..	P3
8.E.8	Inspect and test electrical/electronically-operated components and circuits of air injection systems; perform necessary action.	P3
8.E.9	Inspect and test catalytic converter efficiency.	P1
8.E.10	Diagnose emissions and drivability concerns caused by the evaporative emissions control system; P1 determine necessary action.	P1
8.E.11	Inspect and test components and hoses of the evaporative emissions control systems; perform necessary action.	P1
8.E.12	Interpret diagnostic trouble codes (DTCs) and scan tool data related to the emissions control systems; determine necessary action.	P1