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.

Task Code	Task	Priority
A. General Engine Diagnosis		
8.B.1	Retrieve and record diagnostic trouble codes, OBD monitor status, and freeze frame data; clear codes when applicable.	P-1
8.B.2	Access and use service information to perform step-by-step (troubleshooting) diagnosis.	P-1
8.B.3	Perform active tests of actuators using a scan tool; determine necessary action.	P-2
8.B.4	Describe the importance of running all OBDII monitors for repair verification.	P-1
8.B.5	Diagnose the causes of emissions or drivability concerns with stored or active diagnostic trouble codes; obtain, graph, and interpret scan tool data.	P-1
8.B.6	Diagnose emissions or drivability concerns without stored diagnostic trouble codes; determine necessary action.	P-1
8.B.7	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.	P-2
8.B.8	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.	P-3
E. Emission Control Systems Diagnosis and Repair		
8.E.1	Diagnose oil leaks, emissions and drivability concerns caused by the positive crankcase ventilation (PCV) system; determine necessary action.	P-3
8.E.2	Inspect, test and service positive crankcase ventilation (PCV) filter/breather cap, valve, tubes, orifices, and hoses; perform necessary action.	P-2
8.E.3	Diagnose emissions and drivability concerns by the exhaust gas recirculation (EGR) system; determine necessary action.	P-3
8.E.4	Diagnose emissions and drivability concerns caused by the secondary air injection and catalytic converter systems; determine necessary action.	P-2
8.E.5	Diagnose emissions and drivability concerns caused by the evaporative emissions control system; determine necessary action.	P-2

8.E.6	Inspect and test electrical/electronic sensors, controls, and wiring of exhaust gas recirculation (EGR) systems; perform necessary action.	P-2
8.E.7	Inspect, test, service, and replace components of the EGR system including tubing, exhaust passages, vacuum/pressure controls, filters, and hoses; perform necessary action.	P-2
8.E.8	Inspect and test electrical/electronically-operated components and circuits of air injection systems; perform necessary action.	P-3
8.E.9	Inspect and test catalytic converter efficiency.	P-2
8.E.10	Inspect and test components and hoses of the evaporative emissions control system; perform necessary action.	P-1
8.E.11	Interpret diagnostic trouble codes (DTCs) and scan tool data related to the emissions control systems; determine necessary action.	P-3