General Driveability and Emission Diagnosis

Student/Intern information:					
Name		Date	Class		
Vehicle used for	or this activity:				
Year	Make		Model		
Odometer		VIN			

Learning Objective/Task	CDX Tasksheet Number	2017 MAST NATEF Reference Number; Priority Level
• Diagnose engine mechanical, electrical, electronic, fuel, and ignition concerns; determine needed action.	C710	8A9; P-2
 Diagnose the causes of emissions or driveability concerns with stored or active diagnostic trouble codes (DTC); obtain, graph, and interpret scan tool data. 	C660	8B5; P-1
• Diagnose emissions or driveability concerns without stored or active diagnostic trouble codes; determine needed action.	C711	8B6; P-1
• Interpret diagnostic trouble codes (DTCs) and scan tool data related to the emissions control systems; determine needed action.	C668	8E7; P-2
Diagnose driveability and emissions problems resulting from malfunctions of interrelated systems (cruise control, security alarms, suspension controls, traction controls, HVAC, automatic transmissions, non-OEM-installed accessories, or similar systems); determine needed action.	C409	8B8; P-2

Time off	
Time on	
Total time	

Materials Required

- Vehicle or simulator with related fault
- DMM/DVOM
- Problem-specific tools and equipment such as: scan tool, lab scope, etc.

Some Safety Issues to Consider

- You will be working under the hood of a running vehicle. Keep your hands and fingers away from moving belts, fans, and other parts.
- When running any vehicles in the shop, make sure you use the shop's exhaust ventilation system to discharge all exhaust gas safely outside.
- Only students who have their supervisor/instructor's direct permission should perform this task due to the safety concerns involved.
- Diagnosis of this fault may require test driving the vehicle on the school grounds. Attempt this task only with full permission from your instructor and follow all the guidelines exactly.
- 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.

Engine Performance 1059

Performance Standard

- **O-No exposure:** No information or practice provided during the program; complete training required
- **1-Exposure only:** General information provided with no practice time; close supervision needed; additional training required
- **2-Limited practice:** Has practiced job during training program; additional training required to develop skill
- **3-Moderately skilled:** Has performed job independently during training program; limited additional training may be required
- 4-Skilled: Can perform job independently with no additional training