Brakes: Electronic Brake Control Maintenance and Service

Student/intern information:

Name _____ Date _____ Class _____

Vehicle used for this activity:

Year _____ Make _____ Model _____

Odometer _____ VIN _____

Time off _____

Time on _____

Total time _____

Learning Objective/Task	CDX Tasksheet Number	2013 MLR NATEF Reference Number; Priority Level	2013 AST NATEF Reference Number; Priority Level	2013 MAST NATEF Reference Number; Priority Level
• Identify traction control/vehicle stability control system components.	C857	5G1; P-3	5G2; P-3	5G2; P-3
• Identify and inspect electronic brake control system components; determine necessary action.	C634		5G1; P-1	5G1; P-1
• Describe the operation of a regenerative braking system.	C950	5G2; P-3	5G3; P-3	5G3; P-3

Materials Required

- Vehicle with traction control
- Vehicle hoist to see some of the components that are located under the vehicle
- DMM/DVOM
- Lab scope

Some Safety Issues to Consider

- Diagnosis of this fault may require test-driving the vehicle on the school grounds or on a hoist, both of which carry severe risks. Attempt this task only with full permission from your supervisor/instructor and follow all the guidelines exactly.
- Anti-lock brake systems store brake fluid under tremendous pressure that can cause severe injury, even when the engine is not running. Always refer to the service manual to determine how to depressurize the system safely whenever working on it.
- **Caution:** Most types of brake fluid are harmful to painted surfaces. Be sure to prevent brake fluid from coming into contact with a vehicle's paint. Use fender covers to minimize this risk and be sure to wipe up any spilled brake fluid immediately with a wet rag.
- 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.

Performance Standard

0—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