

Lighting System Diagnosis and Repair

Student/Intern information:

Name _____ Date _____ Class _____

Vehicle used for this activity:

Year _____ Make _____ Model _____

Odometer _____ VIN _____

Learning Objective/Task	CDX Tasksheet Number	2017 MAST NATEF Reference Number; Priority Level
• Identify system voltage and safety precautions associated with high-intensity discharge headlights.	C564	6E4; P-2
• Inspect interior and exterior lamps and sockets including headlights and auxiliary lights (fog lights/driving lights); replace as needed.	C956	6E2; P-1
• Aim headlights.	C321	6E3; P-2
• Diagnose (troubleshoot) the cause of brighter-than-normal, intermittent, dim, or no-light operation; determine needed action.	C320	6E1; P-1

Time off _____

Time on _____

Total time _____

Materials Required

- Vehicle or simulator equipped with HID headlights
- DMM/DVOM
- Test light
- Headlight aligner or approved method

Some Safety Issues to Consider

- Be cautious around electricity. High voltage (enough to injure or kill you) is present on many vehicles. Ignition systems, hybrid vehicles, high-intensity discharge headlights, and 42-volt electrical systems are just a few to be careful of.
- Wear lightweight leather-type gloves when removing small light bulbs as they can shatter, severely cutting fingers and tendons.
- 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