

HVAC: Preliminary Testing

Student/intern information:

Name _____ Date _____ Class _____

Vehicle used for this activity:

Year _____ Make _____ Model _____

Odometer _____ VIN _____

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
• Performance test A/C system; identify problems.	C824		7A3; P-1	7A3; P-1
• Identify abnormal operating noises in the A/C system; determine necessary action.	C825		7A4; P-2	7A4; P-2
• Inspect A/C condenser for airflow restrictions; determine necessary action.	C959	7B3; P-1		
• Inspect A/C condenser for airflow restrictions; perform necessary action.	C356		7B7; P-1	7B7; P-1
• Inspect evaporator housing water drain; perform necessary action.	C830		7B10; P-1	7B10; P-1
• Identify the source of A/C system odors.	C655	7D2; P-2	7D7; P-2	7D7; P-2

Time off _____

Time on _____

Total time _____

Materials Required

- Appropriate air conditioning manifold gauge set including service hoses
- Air conditioning service station recovery/recycling equipment as necessary
- Auxiliary fan for condenser (if needed)
- Appropriate thermometers
- Infrared temperature gun/thermocouple
- Anemometer
- Stethoscope
- Scan tool

Some Safety Issues to Consider

- Refrigerant can cause serious damage if it comes in contact with a person's unprotected skin and eyes.
- When operating, the air conditioning system is normally subject to very high pressure in the system. Extreme caution must be exercised when working on an operating system.
- Extreme caution must be exercised when working around rotating components.

- When running any vehicles in the shop, make sure you use the shop's exhaust ventilation system to discharge all exhaust gas safely outside.
- 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.

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