Cylinder Power Balance Tests

Meets NATEF Task: (A8-A-9) Perform cylinder power balance tests; determine necessary action (P-2)

Name _____ **Date** _____ **Time on Task** _____

Make/Model/Year _____ **VIN** _____ **Evaluation: 4 3 2 1**

_____ **1.** An automotive diagnostic scope or digital storage oscilloscope with relative compression can be used to determine cylinder balance. Check all that apply.

____ Automotive diagnostic scope
____ Digital storage oscilloscope with relative compression capability
____ Other (describe) _____

_____ **2.** Follow the equipment manufacturers' instructions and connect the tester to the engine. Instructions to connect to the engine include: _____
_____

_____ **3.** Start the engine and allow it to reach normal operating temperature.

_____ **4.** Follow the instructions of the test equipment manufacturer and perform a cylinder power balance test. Record the results.

Cylinder #1 = _____ Cylinder #5 = _____
Cylinder #2 = _____ Cylinder #6 = _____
Cylinder #3 = _____ Cylinder #7 = _____
Cylinder #4 = _____ Cylinder #8 = _____

_____ **5.** If performing an engine speed (RPM) drop test, all cylinders should be within 50 RPM.

____ **OK**
____ **NOT OK** (describe results) _____
____ **NA**

_____ **6.** If relative compression is being performed, all cylinders should be within 10%.

____ **OK**
____ **NOT OK** (describe results) _____
____ **NA**