**Meets ASE Task:** (A6-A-13) P-1 Test and measure circuit using an oscilloscope and/or graphing multimeter (GMM); interpret results; determine needed action. (A8-B-7) P-1 Inspect and test computerized engine control system sensors, powertrain/engine control module (PCM/ECM), actuators, and circuits using a graphing multimeter (GMM), digital storage oscilloscope (DSO), and/or scan tool; determine needed action.

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date:\_\_\_\_\_\_\_\_\_\_\_\_\_

Time on Task:\_\_\_\_\_\_\_\_\_\_\_\_\_

Make/Model/Year:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

VIN:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Evaluation (Enter number from 4, 3, 2, 1) :\_\_\_\_\_\_\_\_\_

**Oscilloscope**

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**[ ]  1.** Check service information for the recommended usage of an oscilloscope to diagnose

 electrical or electronic concerns. Describe the tests recommended. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**[ ]  2.** According to service information, which system can/should be tested using an

 oscilloscope? (Check all that apply.)

 **[ ]** Wheel speed sensor

 **[ ]** Crankshaft position sensor

 **[ ]** Camshaft position sensor

 **[ ]** Secondary ignition

 **[ ]** Serial data communication circuits

 **[ ]** Audio circuits

 **[ ]** Other (describe) \_\_\_\_\_\_\_\_\_\_\_\_\_\_

 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**[ ]  3.** Which system(s) was tested using an oscilloscope? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**[ ]  4.** Based on the test results, what is the needed action? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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