**Meets ASE Task:** (A6-A-6) P-1 Demonstrate knowledge of the causes and effects from shorts, grounds, opens, and resistance problems in electrical/electronic circuits.

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

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

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

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

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

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

**Locate Shorts, Grounds, and Opens**

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**[ ]  1.** Check service information for the recommended method for locating shorts, grounds,

 and opens.

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

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[ ]  2. Follow the recommended troubleshooting procedure to

 locate the short-to-ground. Check all that apply.

 [ ]  Short finder

 [ ]  Ohmmeter attached to the fuse panel with the

 fuse removed

 [ ]  Voltmeter attached to the fuse panel with the fuse

 removed

 [ ]  Ammeter attached to the fuse panel with the fuse removed

 [ ]  Sonic short finder

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

**[ ]  3.** Most diagnostic test procedures include checking for proper power and ground at the

 component that is not functioning.

 a. Is there voltage at the

 component when the circuit is

 activated?

 **Yes [ ]  No [ ]**

 b. Is there continuity between the

 ground connection at the

 component and a good chassis

 ground?

 **Yes [ ]  No [ ]**

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