Freeze Frame and MIL Activity

Meets NATEF Task: (A8-B-5) Diagnose the causes of emissions or driveability concerns with stored or active diagnostic trouble codes; obtain, graph, and interpret scan tool data. (P-1)

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

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

The purpose of this activity is to allow the service technician apply the use of freeze frames in the diagnosis of OBD II faults.

_____ **1.** Connect a scan tool with the key on, engine off (KOEO), and disconnect the electrical connection from the throttle position (TP) sensor. Wait 3 seconds.

_____ **2.** A TP sensor TP fault diagnostic trouble code (DTC) should have been set.

____ Yes (DTC was set) ____ No (no DTC was set) Turn the ignition off and back on. Did the DTC set?
____ Yes ____ No

_____ **3.** Using a scan tool, view the freeze frame created when the DTC was set.

____ OK (freeze frame was set) ____ No (freeze frame was not set)

_____ **4.** Is the malfunction indicator lamp (MIL or check engine) on? ____ Yes ____ No

_____ **5.** Check service information and list the reason(s) that could cause the MIL to be on in the event of a disconnected TP sensor.

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_____ **6.** Check service information and determine what needs to occur to turn off the MIL.

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