## **EP-LAB 11-ECTS**

NATEF	TASK	SHEET	SECTION	<b>A8</b>	A.14 B.2,4,6 D.1	<b>P-1</b>
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**ENGINE PERFORMANCE ECTS: TEST AND EVALUATE ENGINE COOLANT TEMPERATURE SENSOR** 

Student: \_\_\_\_\_ Date: \_\_\_\_Period: \_\_\_\_\_

Year: \_\_\_\_\_ Make: \_\_\_\_\_ Model: \_\_\_\_\_ Engine: \_\_\_\_\_

**OBJECTIVE:** Student will test Engine Coolant Temperature Sensor (ECTS) with a DVOM and Scan Tool, compare to specifications, and evaluate sensor.

## **EYE PROTECTION MATERIALS:** 1.

- **DVOM** and Scan Tool 2.
- 3. Mitchell On Demand or All-Data
- 4 Vehicle (see instructor)

**PROCEDURE:** WEAR EYE PROTECTION! Look up, print out, and attach directions for removing, installing, and testing Engine Coolant Temperature Sensor using All-Data or Equivalent.

BRIEFLY DECRIBE THE PROCEDURE FOR TESTING THE SENSOR WITH A DVOM:

BRIEFLY DECRIBE THE PROCEDURE FOR TESTING THE SENSOR WITH A SCAN TOOL:

WITH DVOM	Measured	Temperature	Specifications						
SENSOR READING COLD:	Ohms	F°/ C°	Ohms						
SENSOR READING WARM:	Ohms	F°/ C°	Ohms						
Attach the resistance specifications chart									
WITH SCAN TOOL	Temp Accordi	ng to Scan Tool	Actual Temperature						
SENSOR READING COLD:	F°/ C°		Actual Coolant Temperature						
			F°/ C°						
SENSOR READING WARM:		_F°/ C°	Coolant Operating Temperature						
			F°/ C°						
SENSOR LOCATION:									
WHICH TESTING METHOD IS	SMORE ACCURATE?	CIRCLE ONE: SCAN T	OOL DVOM						
WHICH TESTING METHOD IS	SFASTER?	CIRCLE ONE: SCAN T	OOL DVOM						
DOES THE SENSOR NEED TO	BE REPLACED?	CIRCLE ONE: YES	NO						
WHAT WOULD HAVE MADE THIS	TASK FASIFR?								

HAT WOULD HAVE MADE THIS TASK EASIER?

## INSTRUCTORS EVALUATION

LEVEL OF SKILL ATTAINED	Initial	OVERALL SKILL EVALUATION	Points	
DEMONSTRATES MASTERY (5)		DOCUMENTATION COMPLETENESS (1)		
PERFORMS SATISFACTORILY (4)		SAFETY COMPLIANCE (1)		
CAPABLE, NEEDS PRACTICE (3)		WORK PROFESSIONALISM (3)		
Assisted in Performing (2)		LEVEL OF SKILL ATTAINED (1-5)		
EXPOSURE, OBSERVATION (1)		TOTAL SCORE		
INSTRUCTOR'S SIGNATURE:		·		

EP-LAB 11-ECTS 09 / 05-27-09 / vdb