

NATEF TASK SHEET --- SECTION A6 A.1,6,9,13 B.1,2 C.1 D.1,3 (P-1)

SC11: COMPLETE DIAGNOSIS OF THE STARTING – CHARGING SYSTEM

What do you do when the car does not start?

Student: _____ Date: _____ Period: _____

VIN: _____ Year: _____ Make: _____ Model: _____

Engine: _____ Transmission: _____ Production Date: _____

Objective: Student will test Starting – Charging system and recommend repairs necessary to bring systems to factory specifications. Test will be completed accurately within 5 minutes to receive “Battery Installer Certificate.”

- Materials:**
1. **EYE PROTECTION**
 2. Volt-Ohm-Meter
 3. MDX700 or Equivalent
 4. Test Lamp
 5. Vehicle with fully charged battery (see instructor)

Procedure: **WEAR EYE PROTECTION!** Use fender cover, seat covers, and floor mats. Student will test Starting–Charging system and recommend repairs necessary to bring system to factory specifications. Test will be completed accurately within 5 minutes and SC5 (remove and install battery) in less than 10 minutes to receive “Battery Installer Certificate.”

Test	Description	Result/Observation	Pass or Fail	
Battery Inspection	How does the battery and hold-down appear?			
State-Of-Charge	How full is the battery?			
Conductance Test Battery	Does the battery need replacement?			
Alternator Output	Does the alternator need replacement?			
Alternator Belt Inspection	Does the alternator belt need replacement?			
Starter Test	Does the starter need replacement?			
Draw Test	Is anything draining the battery?			

Total service and repairs needed: _____

Time Taken: ____ MIN ____ SEC

Battery Installer Certificate Recommended? Instructor Sign and circle : _____ Yes No

LEVEL OF SKILL ATTAINED	WORK PROFESSIONALISM	Points
Student can evaluate results and determine necessary action (5)	Documentation Completeness (1)	
Student can interpret outcomes (4)	Safety Compliance (1)	
Student can recall/recite procedure (2)	Floor mats, seat covers, and fender cover (3)	
Student has observed procedure (1)	LEVEL OF SKILL ATTAINED (1-5)	
	TOTAL SCORE	

INSTRUCTOR’S SIGNATURE: _____