

# 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. VAT 45 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 systems to factory specifications. Test will be completed accurately within 5 minutes to receive “Battery Installer Certificate.”

Test	“Mastered” Yes / No	Result/Observation	Pass / Fail
Battery Inspection			
State-Of-Charge			
Load Test Battery			
Alternator Output			
Alternator Belt Inspection			
Starter Test			
Draw Test			

**RECOMMENDATIONS:** \_\_\_\_\_

**TOTAL TIME TAKEN:** \_\_\_\_\_ **MIN** \_\_\_\_\_ **SEC** (LESS THAN 5 MINUTES FOR CERTIFICATE)

**INSTRUCTOR INITIAL:** \_\_\_\_\_

***STUDENT MUST DEMONSTRATE MASTERY TO RECEIVE BATTERY INSTALLER CERTIFICATE***

**PROBLEMS / CONCERNS:** \_\_\_\_\_

<b>INSTRUCTORS EVALUATION</b>			
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)		<b>TOTAL SCORE</b>	
<b>INSTRUCTOR’S SIGNATURE:</b>			

*Electrical system diagnosis /SC11/07-12-07/vdb*