

## NATEF TASK SHEET --- SECTION A.6 B. 1, 2 (P-1)

### SC4A: BATTERY CONDUCTANCE TEST

**Determining: Do I need to buy a new Battery?**

Student: \_\_\_\_\_ Date: \_\_\_\_\_ Period \_\_\_\_\_

VIN: \_\_\_\_\_ Year: \_\_\_\_\_ Make: \_\_\_\_\_ Model: \_\_\_\_\_

Engine: \_\_\_\_\_ Transmission: \_\_\_\_\_ Production Date: \_\_\_\_\_

**OBJECTIVE:** Student will determine battery state of charge, test battery with conductance tester, and determine if battery needs replacement.

- MATERIALS:**
1. **EYE PROTECTION**
  2. Battery Conductance Tester
  3. Vehicle or Battery (see instructor)
  - 4.

**PROCEDURE:** WEAR EYE PROTECTION Read this entire task sheet before proceeding! Watch video SC4A. Use fender covers. Connect Conductance Tester to Battery & leave connected. Follow the on-screen directions to test the battery. Set Cold Cranking Amps on tester. Press test. Note all results below:

**RESULTS:**

Record Battery Appearance: \_\_\_\_\_ *Is it dirty, clean, corroded, missing hardware, etc....?*  
 Initial Voltage Reading \_\_\_\_\_ *Volts - A min of 12.4 volts is required to do the test!*  
 Battery Amperage rating (CCA) \_\_\_\_\_ *Cold-Cranking-Amps (It's on the battery label!)*  
 Actual CCA reading of Battery \_\_\_\_\_ *This is the actual CCA results from the tester!*  
 CCA rating required by vehicle \_\_\_\_\_ *Look it up in battery catalog or equivalent →*



**RESULTS:** PASS \_\_\_\_\_ FAIL \_\_\_\_\_

If the battery fails this test, what needs to be done to repair the vehicle?  
 \_\_\_\_\_

Inspect the battery terminals, and hold-down hardware for tightness and corrosion:

What did you find? \_\_\_\_\_

Is the CCA rating of the battery in the vehicle adequate for the application? Yes No *circle one*

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

*(Does the Battery need to be charged, cleaned, or replaced? Why?)*

**INSTRUCTORS EVALUATION**

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 (2-5)	
	<b>TOTAL SCORE</b>	
<b>INSTRUCTOR'S SIGNATURE:</b> _____		