

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 (1-5)	
	TOTAL SCORE	
INSTRUCTOR'S SIGNATURE: _____		