

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

SC4B: BATTERY LOAD TEST (*Finding out: Is the Battery Any Good?*)

Student: _____ Date: _____ Period _____

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

Engine: _____ Transmission: _____ Production Date: _____

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

- MATERIALS:**
1. **EYE PROTECTION**
 2. Battery Load Tester
 3. Digital-Volt-Ohm-Meter (DVOM)
 4. Vehicle or Battery(see instructor)

PROCEDURE: WEAR EYE PROTECTION!

Watch power point SC4 and fill in blanks below. Use fender cover, seat covers, and floor mats. Connect DVOM to Battery & leave connected. Use _____ Scale.

Note battery appearance. (*Is it dirty?*) **Record below.**

Measure battery voltage. (*How full is it?*) **Record below.**

If voltage reading is **below** volts.....**Charge Battery.**

When voltage reading is **above** volts, **Record below &**

Continue on with test:

Connect Battery Load tester to vehicle’s battery. Apply load to battery for _____ seconds and *note lowest voltage reading* on DVOM during load, **Record below.**

Below: Volts=FAIL Above Volts=PASS

RESULTS:

| | |
|--|---|
| RECORD BATTERY APPEARANCE: _____ | |
| RECORD VOLTAGE READINGS: | Initial Voltage Reading _____ |
| | After Charging (<i>Only if it needed it</i>) _____ |
| | Lowest Voltage Reached During Test _____ |
| RESULTS; PASS _____ FAIL _____ | |

YOUR RECOMMENDATION: _____

(Does the Battery need to be cleaned or replaced?)

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: _____ | | | |