

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

Name _____ Date _____ Period _____

SC1: DETERMINING STATE OF CHARGE

Just how much power is in that battery?

Purpose: Student will determine state of charge in two batteries using the voltage method below. Student will be aware of two other methods of determining charge.

Procedure: Watch power point and video SC1, fill in charts below, test battery voltage, and determine state of charge. Use fender covers, seat covers, and floor mats. Make recommendations to bring vehicles/batteries up to factory specifications.

- Materials Needed:**
1. Safety Glasses, Volt-Ohm-Meter
 2. Batteries or vehicles with batteries (See Instructor)

Fill out this box from Power Point SC1:

1. BATTERY VOLTAGE METHOD:

OPEN CIRCUIT VOLTAGE CHART	
Open Circuit Voltage (volts)	Percent Charge
___ . ___ or less.....0%
___ . ___.....25%
___ . ___.....50%
___ . ___.....75%
___ . ___ or higher..100%

2. SPECIFIC GRAVITY METHOD: REFERENCE CHART

Red _____	Water - Dead
White _____	Recharge
Green _____ - _____	Full Charge

IF READINGS VARY BY MORE THAN 0.050, REPLACE BATTERY

3. BATTERY EYE METHOD: Fill in blanks below from power point:

- ◇ _____ = 75-100 percent charge. The battery is adequately charged for further testing.
- ◇ _____ or _____ = 0-75 percent charge. The battery is NOT ADEQUATELY charged and must be charged.
- ◇ _____ OR _____ COLOR = BATTERY MUST BE REPLACED.

Vehicle1: _____ Battery: ___ . ___ Volts _____ Percentage Full
 Vehicle2: _____ Battery: ___ . ___ Volts _____ Percentage Full

DOES THIS TEST TELL YOU WHETHER THE BATTERY IS GOOD OR BAD? YES NO CIRCLE ONE

YOUR RECOMMENDATIONS: _____
Do the batteries need to be charged? Do the batteries need to be cleaned? Any other problems with the batteries?

INSTRUCTORS EVALUATION

LEVEL OF SKILL ATTAINED	Initial	OVERALL SKILL EVALUATION	Points
DEMONSTRATES MASTERY (5)		DOCUMENTATION COMPLETENESS (1)	
PERFORMED INDEPENDENTLY (4)		SAFETY COMPLIANCE (1)	
CAPABLE, NEEDS PRACTICE (3)		WORK PROFESSIONALISM (3)	
ASSISTED IN PERFORMING (2)		LEVEL OF SKILL ATTAINED (1-5)	
NEEDS CLOSE SUPERVISION (1)		TOTAL SCORE	

INSTRUCTOR'S SIGNATURE: _____