

**2012 MICHIGAN SKILLS USA CHAMPIONSHIPS
TASK & MATERIALS LIST**

Contest Day – Saturday, April 21, 2012

SKILL OR LEADERSHIP AREA: Power Equipment Technology

TASKS TO BE PERFORMED:

- Written test on parts identification using repair parts manual and/or microfiche
- Written technical test concerning basic engine theory, diagnosis, and repair procedures, electrical testing, preventive maintenance and troubleshooting.
- Diagnose problems with fuel, governor, and electrical systems; start and adjust running engine.
- Measure various engine components and diagnose condition. Metric and English standards will be used.
- Disassemble and re-assemble an engine using proper tools and procedures. Identify various engine defects.
- Written Tests (Technical and SkillsUSA professional development) (given on Friday afternoon)

TIME WILL BE A SIGNIFICANT SCORING FACTOR.

STUDENTS MUST SUPPLY:

- Hand tools, sufficient to disassemble and reassemble an engine along with any special tools recommended by an engine manufacturer.
- Measuring tools including a Torque wrench (inch pound and foot pound)
- Personal protective gear, ALL participants must wear safety glasses with side shields or goggles, and approved work shoes, (no Tennis Shoes will be allowed).
- Clothing considered appropriate for the industry (no T-shirts).
- # 2 pencils and shop towels
- 1-page resume

Non compliance with clothing or safety gear will result in points deducted and/or the individual not being able to participate

Engines used may be 2 or 4 cycle Kawasaki & Stihl.

Electrical tests may be performed with any suitable tester furnished by contestant.

Starting Time: Be at the test site at 8:20 a.m., orientation at 8:30 a.m. (3 hours allotted for test)

Revised 1/9/12

SCORECARD Power Equipment Technology

Contestant Number

Items Evaluated	Possible Points								
Station # 1 - Written Test	100								
Station # 2 - Parts Id	75								
Station # 3 - Customer Service	100								
Station # 4 - Starter Repair	75								
Station # 5 – Ignition Service	95								
Station # 6 - Failure Analysis	75								
Station # 7 – Internal Service	95								
Station # 8 – Measurements	70								
Station # 9 – Running Adjustments	75								
Station # 10 - 2-Cycle Service	90								
Station # 11 – Carburetion Service	75								
Station # 12 – Wild-card Station	75								
Résumé Penalty	0 or -50 only								
Clothing Penalty	0 to -50								
Total Possible Points	1000								

Date: _____

Judges' Signatures: _____
