

**2017 MICHIGAN SKILLS USA CHAMPIONSHIPS
TASK & MATERIALS LIST**

SKILL OR LEADERSHIP AREA: Power Equipment Technology

CONTEST LOCATION:

M-TEC Tassell Center
622 Godfrey Ave SW
Grand Rapids, MI, US
(616) 234-3800
<http://cms.grcc.edu/node/2006>

RESUME:

Each student must submit a one-page printed resume before the contest start at the contest site (present to contest coordinator, not judges). The resume is no longer submitted online. This is the only time that resumes can be turned in. Failure to do so will result in a 10 point penalty.

TASKS TO BE PERFORMED:

- Written test on parts identification using repair parts manual
- Written technical test concerning basic engine theory, diagnosis, and repair procedures, electrical testing, preventative 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 various systems of an engine using proper tools and procedures. Identify various engine defects.
- Written Tests (Technical and SkillsUSA professional development) (given on Friday afternoon)

STUDENTS MUST SUPPLY:

- 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
- Sack lunch
- No school logo, school name, contestant name, or any other identifying marks of any kind on clothing at the contest site or during the competition.

Noncompliance with clothing or safety gear will result in points deducted from contestant's score

Engines used will be 2 or 4 cycle Kawasaki EFI, Echo Trimmers, Briggs 2 & 4 cycle engines, Kohler EFI Engines.

SCORECARD Power Equipment Technology

Contestant Number																				
Items Evaluated	Points																			
Station #1 - Service Writing	50																			
Station #2 - Carburetors	65																			
Station #3 - 2 Stroke Failure Analysis	40																			
Station #4 - Magneto Coils	40																			
Station #5 - Stators	35																			
Station #6 - Engine Measurement	100																			
Station #7 - String Trimmer Diagnosis	20																			
Station #8 - Kohler EFI Test	50																			
Station #9 - Cylinder Head	55																			
Station #10 - Compression Test	75																			
Station #11- Engine Service	50																			
Station #12- 4 Stroke Failure Analysis	50																			
Station #13- Written Test	100																			
Station #14- Electrical Knowledge	50																			
Subtotal	780																			
Resume	0 or -10 only																			
Appropriate Clothing	Up to -50																			
Total Points (x Subtotal by 1.9)	1000																			

Judges Signatures
