

**2019 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). There will be no deduction for belt buckles unless offensive in nature.
- # 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, Honda Engines

# SCORECARD Power Equipment Technology

Contestant Number		#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	#11	#12	#13	#14	#15	#16	#17	#18	#19	#20	
Items Evaluated	Points																					
Station #1 - Carburetors	65																					
Station #2 - Magneto Coils	40																					
Station #3 - 2 Stroke Failure Analysis	80																					
Station #4 - Cylinder Head	55																					
Station #5 - Stators	35																					
Station #6 - Engine Measurement	90																					
Station #7 - 4 Stroke Failure Analysis	80																					
Station #8 - Compression Test	75																					
Station #9 - String Trimmer Diagnosis	40																					
Station #10 -Engine Running Test	90																					
Station #11- Kohler EFI Test	100																					
Station #12- Service Writing	50																					
Station #13- Electrical/ Schematic	100																					
Station #14- Written Test	100																					
Subtotal	1000																					
Resume	0 or -10 only																					
Appropriate Clothing	Up to -50																					
Total Points (x Subtotal by 1.9)	1000																					

Judges Signatures

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