



Power Equipment Technology

2024 SkillsUSA Michigan State Championships Contest Description Task and Material List

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 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.
- Approved leather work shoes or boots, (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

Revised 1/4/24

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 - Recoil Repair	40																				
Station #10 -Electrical/ Schematic	100																				
Station #11- Job Interview	70																				
Station #12- String Trimmer Diagnosis	60																				
Station #13- Written Test	100																				
Subtotal	890																				
Resume	0 or -10 only																				
Appropriate Clothing	Up to -50																				
Total Points (x Subtotal by 1.9)	890																				

Judges Signatures

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