

**2020 MICHIGAN SKILLSUSA CHAMPIONSHIPS
TASK & MATERIALS LIST**

SKILL OR LEADERSHIP AREA: AUTO SPECIALIST TECHNICIAN - ELECTRICAL

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 starts 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.

NEW - NATIONAL AUTO MAINTENANCE AND LIGHT REPAIR CONTEST

Starting this year, Michigan will compete in the National Auto Maintenance and Light Repair contest. In order to determine the 2020 Michigan contestant:

- Each Specialist contestant will be required to take an ASE style, MLR (Maintenance and Light Repair) based written test.
- After the first place winner in each of the three Auto Specialist contests has been determined, the Specialist first place winner with the highest MLR written test score will be offered the opportunity to compete at Nationals.
- In the case of a tie, the first tiebreaker will be the highest Specialist contest score. If needed, the second tiebreaker will be the second highest MLR written test score.

SECTION I - GENERAL INFORMATION

TASKS TO BE PERFORMED:

- Inspecting a vehicle by checking for identification, proper fluid levels, and tire pressure, etc.
- Diagnosing the operation of the heater and A/C system
- Finding information in the owner's manual
- Battery testing
- Identify vehicle components

THERE ARE FOUR TEST STATIONS WITH A TIME LIMIT OF 17 MINUTES EACH

<u>CONTEST</u>	<u>ORIENTATION</u>	<u>CONTEST</u>	<u>DEBRIEFING</u>
Master Contest	8:00 AM	8:20 AM – 12:00 PM	12:00 PM
Specialists - All	12:15 PM	12:40 – 2:10 PM	2:10 PM

Note: Time is subject to change depending on number of contestants. Orientation, Contest and Briefing will begin as close to the scheduled times as possible. Check schedule at time of registration. Students arriving late may not be allowed to compete if competition has started.

SECTION I

GENERAL INFORMATION (CON'T)

STUDENTS MUST SUPPLY: (**This applies to all automotive contests**)

- 1 page resume
- Safety glasses with side shields or goggles
- Appropriate dress consisting of one or two-piece work clothes
- 2 (two) #2 pencils

STUDENT DRESS CODE: Due to the professional nature of this contest, contestants are required to wear apparel appropriate to the trade. SkillsUSA Work Uniforms are strongly suggested.

- Leather work shoes are required - **NO ATHLETIC SHOES ALLOWED - NO EXCEPTIONS.**
- Only shirts with a collar are acceptable, **NO TEE SHIRTS, NO SCHOOL IDENTIFICATION - NO EXCEPTIONS.** Shirts are to be tucked into trousers.
- Basic work-style jeans will be acceptable, however trousers are preferable.
- Any necklaces or bracelets must be removed and long hair is to be tied back.

It is the responsibility of the instructors to ensure their students are properly prepared and supervised for these events. **Students will not be allowed to compete if they do not have the proper shoes or if their attire presents a safety issue.** All contestants called into briefing room will be inspected by the Resolution Team* prior to contest briefing. **ANY CONTESTANT NOT APPROPRIATELY DRESSED WILL RECEIVE A 50 POINT DEMERIT FROM THEIR FINAL SCORE.** [Click here for Clothing Assessment Rubric](#)

All contestants and instructors are expected to act with courtesy and respect to all contest staff and fellow contestants. **ANYTHING LESS MAY RESULT IN REMOVAL/EXCLUSION FROM CONTEST.**

***The Resolution Team will consists of one senior advisor (20 years or more) and one additional advisor who is a contest coordinator and/or is selected by the Automotive Service Technology Technical Committee.**

SPECIAL NOTE FOR SPECTATORS: Parents, non-competing students or other spectators **ARE** allowed to view the contest competition from the designated viewing area (if available). Due to facility limitations, spectators requiring handicapped access may be limited, see AST contest area personnel for assistance, upon arrival.

Cameras and / or video camera policy: **NO VIDEO TAPING BY TEACHERS, ADVISORS, OR PARENTS WILL BE ALLOWED DURING THE CONTEST.** Anyone wanting video of

the contest should make arrangements ahead of time by contacting the Technical Committee. Photographs during the contest will also be restricted. Special arrangements will be made for photo opportunities following the contest.

SECTION II

CONTEST OVERVIEW FOR SPECIALIST TECHNICIAN - ELECTRICAL

DESCRIPTION OF CONTEST:

This contest is designed to test the basic skills and knowledge of an entry-level technician by:

- Using Ohm's Law to calculate electrical circuit values
- Taking electrical measurements using a Digital Volt/Ohm Meter
- Reading and interpreting wiring diagrams
- Building electrical circuits
- Troubleshooting electrical circuits
- Testing electrical components

TOOLS AND EQUIPMENT:

- Digital Volt/Ohm Meter
- 12-volt test lamp
- Jumper leads
- Necessary hand tools

EQUIPMENT SUPPLIED BY TECHNICAL COMMITTEE:

Contestants will not have to bring hand tools and equipment to the contest. They will have some options on the following equipment:

Digital Volt/Ohm Meter (DVOM) - Fluke Model #87/88 will be provided, however, due to the difficulties students exhibit when using DVOM's that they are unfamiliar with, the Technical Committee recommends that students bring their own. **Note: All meters must have a minimum of 10 Meg Ohm input impedance.**

IMPORTANT: The Technical Committee has observed that many students seem to have difficulty using tools and equipment they are unfamiliar with. Therefore, students are permitted to bring their own equipment, provided it is clearly labeled with the students name and/or your school's identification. Equipment that cannot be hand carried through the contest must be dropped off well in advance of the contest briefing so it can be placed at the station for the student to use. Calibration of your equipment is your responsibility.

SCORECARD Automotive Service Technology - Electrical

		Contestant Number							
Items Evaluated	Possible Points								
Circuit 1	250								
Circuit 2	250								
Circuit 3	250								
Ohm's Law Worksheet	250								
Resume Penalty	0 or -10 only								
Clothing Penalty	0 to -50								
Total Possible Points	1000								

Date:

Judges' Signatures:
