



2020 State Contest

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## **MAJOR APPLIANCE & REFRIGERATION TECHNOLOGY (MART)**

### **Description**

Contestants rotate from station to station diagnosing common service issues on refrigerators, washers, dryers, ranges, microwave ovens, or dishwashers. Contestants also demonstrate their ability to braze by assembling a copper and steel tubing project per a schematic provided. The contestant's customer satisfaction and employability skills will also be evaluated using interviews, job applications and various types of assessments. There will also be a general knowledge written exam.

**Note:** Please check the SkillsUSA National website for updated contest information and the SkillsUSA National Technical Standards <http://updates.skillsusa.org>

### **Clothing Requirements**

Class C: Contest Specific — Manufacturing/Construction Khaki Attire

- Official SkillsUSA khaki short-sleeve work shirt and pants
- Black, brown or tan leather work shoes
- Note: Safety glasses must have side shields or goggles (prescription glasses may be used only if they are equipped with side shields. If not, they must be covered with goggles).
- These regulations refer to clothing items that are pictured and described at: [www.skillsusastore.org](http://www.skillsusastore.org). If you have questions about clothing or other logo items, call 800-401-1560 or 703-956-3723.
- Note: Contestants must wear their official contest clothing to the contest orientation meeting and all MART contest functions and activities.

### [Clothing Classifications](#)

### **Knowledge Performance**

The contest will include four written knowledge assessments that assess knowledge:

1. Technical assessment: Installing, servicing and repairing household appliances
2. Customer Relations assessment

*All SkillsUSA California contest projects are subject to change due to any unforeseen facility, staffing or site-related issues. Please use these materials as a reference to prepare students for the potential contest project. SkillsUSA California regional and state contest projects are developed by state technical committee members to align with the national technical standards.*



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3. Employability assessment/résumé All competitors must create a one-page résumé and submit a hard copy to the technical committee chair at orientation. Failure to do so will result in a 10-point penalty.
4. SkillsUSA Professional Development assessment.

### **Skill Performance**

The contest includes a series of stations where contestants will demonstrate the ability to perform jobs and skills selected from the following list of standards and competencies as determined by the SkillsUSA Championships technical committee.

### **Contest Guidelines**

1. The contest will assess a participant's skill while practicing accuracy, good workmanship, speed and the safe use of tools and test equipment.
2. All industry standard and safety practices will be followed and assessed as a part of this contest.

### **Equipment and Materials Supplied by contestants**

1. Toolbox, tool bag, or tool case
2. Assortment or sets of hand screwdrivers (e.g., flat, Phillips, Roberts, Torx head screwdrivers)
3. Nut drivers, standard SAE and metric
4. Assortment or sets of pliers (e.g., common, needle nose, channel lock, diagonal, arc joint)
5. ¼" drive socket set, standard SAE and metric sockets
6. 10-12 oz. hammer
7. Adjustable wrenches, assorted sizes (e.g., 4", 6", 8")
8. Allen wrenches, standard SAE and metric, assorted sizes
9. Assortment or sets of open-end and box-end wrenches, standard SAE and metric
10. Flashlight
11. Pocket thermometer
12. Volt-Ohm meter with standard probes and mini electronic probes

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13. Amperage meter, probe or clamp-on style. Can be integrated with a VoltOhm meter
14. Gloves (optional)
15. All competitors must create a one-page résumé and submit a hard copy to the technical committee chair at orientation. Failure to do so will result in a 10-point penalty.

### **Equipment and Materials Supplied by SkillsUSA California**

1. Contest appliances
2. Contest specialized tools

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