SkillsUSA – Major Appliance and Refrigeration Technology (MART) / Residential and Commercial Appliance Technology (RCAT) 2021 National Championship Contest

**Important Note:** This guide is subject to change due to unforeseen challenges or restrictions of administering a virtual competition during a global pandemic.

The following is the process for the ‘virtual’ 2021 National Conference and the State contests.

**The Mission:** To create and facilitate a MART / RCAT contest that can be conducted virtually by contestants from a remote location without the physical presence of a member of the MART / RCAT National Technical Committee Member (NTCM).

Contest location is defined as a school or an appliance center.

The Primary preference is to have an onsite NTCM presence at each contest location, judging in person. The Secondary preference is to have several cameras set up in the contest location and live streaming, which will be viewed and judged by an assigned NTCM from a remote location.

**Changes and Processes:**

The 2021 National contest may be extended from 1 day to up to 5 days. There contest will still consist of 10 stations. They are:

- Written SkillsUSA Professional Development Career Readiness Assessment. This test will *not* be part of the MART/RCAT graded score.
- Written Technical Test (online)
- Written Customer Service Test (online)
- Resume’, Application and Interview (Zoom, WebEx, Skype, etc.)

Five product stations and one brazing station; appliance products will not be used or needed, however a single part/component will be the focus of the judged product station.

**The Product Stations Are:**

Washer, Dryer, Cooking, Microwave, Dishwasher, Refrigerator and Brazing

- Each station will be provided a part by the supporting manufacturer, to be judged.
- The part will be determined by the manufacturer using these criteria;
  - The part will be accompanied by a tech sheet or service manual to support the diagnosing of the part.
  - The contestant will be allowed 30 minutes to run ‘diagnostics’ on the part, filling out a score sheet designed for that specific part. They will need to read a tech sheet / wiring diagram and answer specific questions.
  - The test will be 5 questions, each question rated ‘up to’ 20 points for a total of 100 points.

**Brazing**

The brazing station will remain as a hands-on demonstration. The contestants will be supplied a template and will use appropriate tools, supplies and safety PPE. The MART/RCAT committee will provide the template and materials. It will be judged in person or virtually. Each location will be required to provide torches, brazing hand tools, a LokRing tool, a water container and pressurized air, to test the completed kit be pressurized and leak tested.
**Product Parts Distribution**

The product parts and brazing supplies will be packaged in a single box. One box per contestant will be shipped to the competition location. The box is to remain sealed until the contest time begins. The competitor will then open the box in the presence of the camera and NTCM.

**Judges**

If schools or other locations allow entry by an outsider, a NTCM may travel to the school to judge the contestant(s) in person.

If a NTCM is not available, the NTC will search for a local appliance professional to attend and judge in person. We will facilitate a Zoom ‘orientation’ meeting to explain the process and techniques of judging.

In the case of in person presence is not allowed, judging will be both live video and recorded according to the national and state policies and process.

**Scoring**

The contest total of 1000 points will remain the same.

Paper score sheets will be scanned and submitted to SkillsUSA national office or the MART/RCAT leadership (TBD). MART/RCAT leadership will compile the results and final scores. SkillsUSA national office will announce the winners.