2020 Sheet Metal Competition

FACT SHEET

Project Manager
Shon Smith
For questions related specifically to the sheet metal competition, contact Shon Smith, sheet metal project manager, 515-509-8443 or ssmith@acimech.com. For all event questions, contact Lisa Nardone, National Craft Championships director, 202-595-1789 or nardone@abc.org.

Specific Competition Eligibility
The sheet metal competition has no competition-specific eligibility requirements. Please refer to overall eligibility requirements listed in the guidebook.

Written Exam
Important news for 2020—The written exam must be completed before competitors arrive onsite. Exceptions will be made for extreme circumstances with prior approval of the NCC director via email. If an exception is granted, the make-up exam will take place Wednesday, March 25, 8:30 a.m.-11 a.m. and be proctored onsite by NCCER. Only those competitors with prior approval from the NCC director will be allowed to take the exam onsite. All competitors must sit for the written exam or face disqualification from the NCC. The written exam continues to make up 25 percent of one’s overall competition score.

Competitors will complete the written exam at a local NCCER Accredited Assessment Center prior to arriving onsite. It is the responsibility of the sponsor organization to schedule test sessions directly with NCCER by emailing a request to: NCCTest@nccer.org SUBJECT: Schedule NCC Test.

NCCER will contact the sponsoring organization to provide access to the written test in NCCER's Online Testing System. Information on accessing the Testing System will be provided including requirements for the testing proctor.

All exams/tests are based on the standardized craft training process. In addition to the knowledge and skills required for each competition, all competitors should have completed the NCCER Core Curriculum modules. A non-programmable calculator will be provided for the written exam, but no reference materials are permitted.

Practical Performance Test Description
Each competitor will perform several tasks utilizing knowledge and skills applicable to sheet metal fabrication, installation, field layout and field measurement. This task will be drawn from both residential and commercial construction. The competitor will be issued a drawing and materials. Working on a wood sub-floor or a steel overhead structure, the competitor will be required to layout, fabricate and install a duct system as per plans consisting of elbows, transitions, offsets, round pipe, taps and straight joints. The materials used will consist of some pre-fabricated fittings and accessories. All other pieces will be fabricated from metal blanks, cut to approximate size, which are provided to complete the project.

Knowledge and Skills Required
The knowledge and skills for this competition are based on all levels of the NCCER Contren® Learning Series Sheet Metal curriculum, with emphasis on the following modules:
Tools Required
Each competitor should bring the tools listed on the following page to the competition. Tools may be examined prior to the practical performance test and additional tools will be stored until the competition has concluded. If a tool, necessary to complete the practical performance test, is not listed, the National Craft Championships Committee will provide it:

- Left and right aviation snips (offset snips acceptable)
- Sheet metal hammer
- 12- to 14-inch tinner snips
- Hand seamer
- Flat-tip screwdriver
- Scratch awl or scribe
- Center punch
- 10’ tape measure (minimum)
- Level (6” or 2’)
- Dividers
- Pencil/Sharpie-type marker
- 12-inch combination square (minimum)
- Flexible steel rule (24” minimum)
- 12-inch Malco (or equal) folding tool
- Adjustable wrench

Competitors should also be familiar with the safe operation of the following tools to be provided onsite:

- Pittsburgh machine
- Hand-crank flanging machine
- Cordless drill and impact
- Metal brake

Sample Score Sheet
The following sample score sheet is provided to give competitors an example of the criteria that may be included in the practical performance test. However, this score sheet is only a sample and not intended to act as a study guide in preparation or to imply specific criteria that will be judged during the actual practical performance test.

ABC National Craft Championships
Sheet Metal Sample Score Sheet

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