



2020 Insulation Competition FACT SHEET

Project Manager

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For questions related specifically to the insulation competition, contact Steve Sjolander, insulation project manager, (608) 780-7955 or steves@lcinsulation.com. For all event questions, contact Lisa Nardone, National Craft Championships director, (202) 595-1789 or nardone@abc.org.

Specific Competition Eligibility

The insulation competition has no competition-specific eligibility requirements. Please refer to overall eligibility requirements listed on page 3 of 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 exam the test 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 Contren® Learning Series 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 select the proper material (by size and type) to be installed. Metal fittings may be fabricated at any time during the test. Competitors will be judged on layout and cut out of fittings and a clean work area. Competitors will submit their layout to the judges before the crimp and bead process and will then apply crimp and bead as needed. All insulation shall be installed on the project before any jacket can be applied. Competitors will submit their projects to the judges for inspection and will continue to be judged on a clean work area. Competitors will then install jacketing to provide weather protection. Jacketing will be fastened with materials provided. Competitors will then submit the completed project to the judges. Competitors will also be judged on the work area at the conclusion of

the test. Competitors will then remove all insulation and jacketing at the direction of the project manager.

Specifications

Insulate all 2' pipe, fittings, flanges and or valves with 1½" thick fiberglass pipe insulation. Install .030 jacketing to sections of this pipe covering at the direction of the project manager. Insulate the 3" pipe, fittings, flanges and/or valves with 1 1/2" thick Polyisocyanurate pipe insulation. Jacket it with .016 Stucco embossed aluminum jacketing. All Polyisocyanurate pipe insulation will be fastened with 1" filament tape. All jacketing will be fastened with ½" stainless steel banding spaced at 8 to 9 inch centers. Insulate the section of ductwork with 1 ½" thick fiberglass board insulation and tape all seams with 3" foil tape.

Knowledge and Skills Required

The knowledge and skills for this competition are based on all levels of the NCCER Contren® Learning Series Insulating curriculum. It is strongly recommended that competitors have a working knowledge equivalent to a third-year apprentice.

Tools Required

Each competitor should bring only the tools listed below 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:

- Boning knife with sheaf
- Steel tape measure
- Dividers
- Hand bander
- Cut-resistant gloves
- Pruning saw
- Right-hand aviation snips
- Left-hand aviation snips
- Channel-lock pliers
- Key hole saw
- Long-sleeve shirt

The National Craft Championships will provide:

- Cordless drill or impact driver with ¼" nut driver
- 1-Beader and 1-Crimper to be shared by all competitors

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 Insulation Sample Score Sheet

Judging Criteria	Competitor Identification Numbers					
	Maximum Points					
Follow prints/plans						
Use of materials						
Accuracy						
Install pipe coverings						

Install miters						
Install end caps						
Fabricate end caps						
Fabricate bevel						
Fabricate tee						
Sequence of work						
Care and use of tools						
General – ability to follow directions, quality of workmanship, neatness, best use of time and completion						
Project disassembly/clean-up						
SUBTOTAL:	160					
Safety – housekeeping						
Use of hard hat						
Use of safety glasses						
Proper use of tools						
Proper footwear						
SUBTOTAL:	40					
GRAND TOTAL:	200					
Tie Breaker #1						
Tie Breaker #2						
Tie Breaker #3						
Tie Breaker #4						