



2019 Insulation Competition FACT SHEET

Project Manager

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For questions related specifically to the insulation competition, contact Steve Sjolander, 2019 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

Every competitor should have a thorough understanding of the craft in which he/she is registered. 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 1 1/2" thick fiberglass pipe insulation. Install .030 PVC 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, then 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 1/2" stainless steel banding spaced at 8" to 9" inch centers. Insulate the section of ductwork with 1 1/2" 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 1/4” nut driver
- T-square
- 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	10				
Use of materials	10				
Accuracy	20				
Install pipe coverings	10				
Install miters	10				
Install end caps	10				
Fabricate end caps	10				
Fabricate tee	10				
Sequence of work	5				
Install duct coverings	10				
Care and use of tools	5				
General – ability to follow directions, quality of workmanship, neatness, best use of time and completion	40				
Project disassembly/clean-up	10				

SUBTOTAL:	160				
Safety – housekeeping	20				
Use of hard hat	5				
Use of safety glasses	5				
Proper use of tools	5				
Proper footwear	5				
SUBTOTAL:	40				
GRAND TOTAL:	200				
Tie Breaker #1					

SAMPLE

Tie Breaker #2			
Tie Breaker #3			
Tie Breaker #4			