



2018 Insulation Competition

FACT SHEET

Project Manager

Mike Pope, Greater Michigan Construction Academy

For questions related specifically to the insulation competition, contact Mike Pope, 2018 insulation project manager, (989) 326-2691 or mp.pope@charter.net. 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 1½" thick mineral wool pipe insulation. Then jacket it with .030 PVC jacketing and fittings. Insulate all 3" pipe, fittings, flanges and or valves with 1 1/2" thick Polyisocyanurate pipe insulation. Then jacket it with .024 Stucco Embossed Aluminum jacketing. Must do at least one beveled end in project. All 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.

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						