



2019 Fire Sprinkler Competition

FACT SHEET

Project Manager: David Victor, VSC Fire and Security

For questions related specifically to the fire sprinkler competition, contact David Victor, 2019 fire sprinkler project manager, (301) 575-1500, ext. 507 or dbvictor@vscfs.com. For all event questions, contact Lisa Nardone, National Craft Championships director, (202) 595-1789 or nardone@abc.org.

Specific Competition Eligibility

The fire sprinkler competition has no competition-specific eligibility requirements. Please refer to overall eligibility requirements listed in 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

The practical portion of the fire sprinkler competition will consist of installing a 3" Butterfly Valve, a 3" Alarm Check Valve and three sprinkler heads. The three sprinkler heads shall consist of an upright, a pendent and a sidewall. This will all be piped from 2 ½" schedule 10 pipe. The competitor will be given drawings with various views of the riser and sprinklers as well as the manufacture's data sheet showing the arrangement of the valve trim. A loose assortment of CPVC pipe and fittings will be given to the competitors to complete the task. After the riser assembly and sprinklers are complete, they will be connected to a water source and checked for leaks.

Knowledge and Skills Required

The knowledge and skills for this competition are based on all levels of the NCCER Contren® Learning Series Sprinkler Fitting curriculum. It is strongly recommended that competitors have a working knowledge equivalent to a third-year apprentice. It is also recommended that each competitor works with his/her employer and/or instructor on the assembly of alarm valve trim. The competitor will be judged on all aspects of installation, with a strong emphasis on safety and procedure.

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:

- 10-inch crescent wrench
- One 8- or 10-inch pipe wrench
- One 12- or 18-inch pipe wrench
- Torpedo Level
- File – to clean pipe ends
- 420's Channel Lock Pliers
- 25' Tape measure
- Socket set with deep set sockets
- 10-inch channel locks
- Hacksaw w/new blade

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 Fire Sprinkler Sample Score Sheet

Judging Criteria	Competitor Identification Numbers					
	Maximum Points					
Plan preparation						
Fabrication procedure						
Material organization						
Proper pipe location						
Proper sprinkler location						
Proper hangers						
Appearance						
Leaks						
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						
SUBTOTAL:	160					
Safety – housekeeping						
Use of hard hat						
Use of safety glasses						
Use of power tools						
Proper footwear						
SUBTOTAL:	40					
GRAND TOTAL:	200					
Tie Breaker #1						
Tie Breaker #2						
Tie Breaker #3						
Tie Breaker #4						