

2023 Fire Sprinkler Competition

FACT SHEET

Project Manager:

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For questions related specifically to the fire sprinkler competition, contact David Victor at dbvictor@vscfs.com. For all event questions, contact Jarrell Jackson, National Craft Championships director, at (202) 595-1789 or jackson@abc.org.

Specific Competition Eligibility

The fire sprinkler competition has no competition-specific eligibility requirements. Please refer to overall eligibility requirements of the guidebook.

Online Exam

The online exam must be completed before competitors arrive on site, at a local NCCER Accredited Training Sponsor or Assessment Center. Accommodations will be made for extreme circumstances with prior approval of the NCC director. All competitors must sit for the online exam or face disqualification from the NCC. The online exam continues to make up 25% of one's overall competition score. It is the responsibility of the sponsor organization to schedule test sessions directly with NCCER. Test registration and guidelines will be available in January 2023.

Practical Performance Test Description

The practical portion of the fire sprinkler competition will consist of installing a $2\frac{1}{2}$ -inch butterfly valve, a $2\frac{1}{2}$ -inch" 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 $2\frac{1}{2}$ -inch schedule 10 pipe. The competitor will be given drawings with various views of the riser and sprinklers as well as the manufacture data sheet showing the arrangement of the valve trim. A loose assortment of steel pipe and cast-iron 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. When the project is *leak free*, the judges will ask a series of questions regarding the operation of the valve and its trim.

Each question session will take place in the order the competitors complete their project. No competitor will be allowed to leave the competition area until the question session by the judges is complete. When the horn blows at 3 p.m., all work shall stop. If there are competitors that have *leak-free* projects, but have not been questioned by the judges, all remaining competitors will remain in the competition area until all of the competitors that have *leak-free* projects have been questioned by the judges. At 4 p.m., all competitors shall return to the competition area to completely break down and clean the competition area.

Knowledge and Skills Required

The knowledge and skills for this competition are based on all levels of the NCCER 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 Provided

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.

- 10-inch crescent wrench
- 8- or 10-inch pipe wrench
- 12- or 18-inch pipe wrench
- Torpedo level
- File, to clean pipe ends
- 420 Channellock pliers

- 25-foot tape measure
- Socket set with deep set sockets and ratchet
- 10-inch channel locks
- Hacksaw with 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 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	•				
Plan preparation						
Fabrication procedure						
Material organization				88		
Proper pipe location	7					
Proper sprinkler location	- 1	7		8	8	ė.
Proper hangers				60		
Appearance						
Leaks						
Sequence of work						
Care and use of tools	_ *	M1		DЛ		
General – ability to follow directions, quality of		$ \setminus \bigvee_{i}$				
workmanship, neatness, best use of time and completion	5)					
Project disassembly		,			r)s	
SUBTOTAL:	160			8		Š.
Safety - housekeeping				0		
Use of hard hat						
Use of safety glasses						
Use of power tools				×.		
Proper footwear				100		
SUBTOTAL:	40			83		
GRAND TOTAL:	200			8		
Tie Breaker #1	37	- 6		8	3	5
Tie Breaker #2		8		.00		
Tie Breaker #3						
Tie Breaker #4				60	S	E