



## Fire Sprinkler Safety Scope

---

### Safety Orientation

A safety program containing a general safety overview and safe work practices will be conducted during the scheduled competitor orientation. Attendance is mandatory for all competitors.

### Personal Protective Equipment (PPE)

All personal protective equipment (PPE) must be appropriate for task and meet current ANSI standards, which have been incorporated into the Occupational Safety and Health Administration (OSHA) PPE regulations as follows: Eye and Face Protection ANSI Z87.1; Head Protection ANSI Z89.1; Foot Protection ANSI Z41.1. There are no ANSI standards for gloves; however, selection must be based on the performance characteristics of the glove in relation to the tasks to be performed. During the practical performance test, ABC National will provide and require the proper use of the following personal protective equipment for all competitors:

- Ear protection;
  - Safety glasses;
  - Hard hat; and
  - General work gloves\*. Safety gloves will be available to each competitor but the competitor is permitted to bring his/her preferred safety gloves.
- \*Work gloves are not to be worn while operating the power machine.

Exceptions to the provided PPE, with prior approval from the respective project manager, are:

- Prescription safety glasses with non-removable side shields;
- Prescriptive goggles;
- Task-specific gloves per industry standards, designed to protect against sharp edges or high heat.

Competitors must provide and use the following:

- Standard work shoes or boots (tennis shoes, sneakers or sandals are not permitted);
- Blue jean pants or work pants; and
- Shirts with sleeves, minimum 4 inches in length, (baggy or excessively loose fitting clothing is not permitted).

### Tools

Competitors must bring the following tools:

- 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

### **NCC Furnished Tools**

- Hole saws
- Teflon tape
- Pipe dope
- Arbors with drill bits
- Tri pod (to share with other competitors)
- 50' hoses
- Pipe cutters
- Grooving equipment
- Glue for CPVC pipe and fittings
- Reamers for CPVC pipe and fittings
- Lube for grooved couplings.

### **Power and Hand Tool Safety**

The following are OSHA-based recommendations.

Five basic safety rules can help prevent hazards associated with the use of hand and power tools:

1. Keep all tools in good condition with regular maintenance.
2. Use the right tool for the job.
3. Examine each tool for damage before use and do not use damaged tools.
4. Operate tools according to the manufacturers' instructions.
5. Provide and use properly the right personal protective equipment.

Some examples of misuse and poor maintenance of hand tools include the following:

- If a chisel is used as a screwdriver, the tip of the chisel may break and fly off, hitting the user or other employees.
- If a wooden handle on a tool, such as a hammer or an axe, is loose, splintered or cracked, the head of the tool may fly off and strike the user or other employees.
- If the jaws of a wrench are sprung, the wrench might slip.
- If impact tools such as chisels, wedges or drift pins have mushroomed heads, the heads might shatter on impact, sending sharp fragments flying toward the user or other employees.

To prevent hazards associated with the use of power tools, workers should observe the following general precautions:

- Never carry a tool by the cord or hose;
- Never yank the cord or the hose to disconnect it from the receptacle;
- Keep cords and hoses away from heat, oil and sharp edges;
- Disconnect tools when not in use, before servicing and cleaning, and when changing accessories such as blades, bits and cutters;
- Keep all people not involved with the work at a safe distance from the work area;
- Secure work with clamps or a vise, freeing both hands to operate the tool;

- Avoid accidental starting. Do not hold fingers on the switch button while carrying a plugged-in tool;
- Maintain tools with care; keep them sharp and clean for best performance;
- Follow instructions in the user's manual for lubricating and changing accessories;
- Be sure to keep good footing and maintain good balance when operating power tools;
- Wear proper apparel for the task. Loose clothing, ties or jewelry can become caught in moving parts; and
- Remove all damaged portable electric tools from use and tag them: "Do Not Use."

### **Jewelry**

Exposed jewelry is not permitted. Examples include (but are not limited to):

- Earrings (stud or dangling);
- Wrist watches;
- Rings;
- Studs exposed through the nose, jaw, lip, eyebrow or any part of the body that is visible;
- Gauges.

### **Cell Phones**

- Cell phones cannot be used at any time during the competition. Point of contact in the event of a personal emergency is Lisa Nardone, National Craft Championships director, (202) 595-1789.

### **Safety Judging**

Prior to the practical performance test, the competition project manager or judges may inspect each competitor's personal hand tools, which must meet all Occupational Safety and Health Administration (OSHA) regulations and standards. For example, "mushroomed" heads on chisels are not permitted.

Judges will be present during the practical performance test to score competitors in such safety areas as the use of personal protective equipment, hand and power tool safety, clean work area, etc. Depending on the severity and/or frequency of a violation or violations, the judges, in consultation with the project manager, have the authority to disqualify competitors.

Note: Competitors continue to be judged during disassembly/clean-up activities and are subject to disqualification or deduction of points for safety violations.

### **First Aid**

All injuries should be reported to the project manager immediately. The project manager will determine the appropriate action, including assistance by onsite EMT personnel.