## 2024 Pipefitting Competition

### **FACT SHEET**

provided so that flange alignment and bolt-up skills can be assessed. Each project will have a time limit in which it must be completed.

#### **Knowledge and Skills Required**

The knowledge and skills for this competition are based on all levels of the NCCER pipefitting curriculum, with particular emphasis on the following modules:

Pipefitting Hand Tools
Pipefitting Power Tools
Drawings and Detail Sheets
Identifying and Installing Valves

Pipefitting Trade Math

Threaded Pipe Fabrication

Socketweld Pipe Fabrication
Butt-Weld Pipe Fabrication
Standards and Specifications

Advanced Trade Math

Advanced Blueprint Reading Advanced Pipe Fabrication

#### **Tools Competitors Are Required to Bring**

Each competitor should bring <u>only the items listed below</u> to the competition. Items will 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:

Leather work gloves
Non-programmable construction
calculator. **No Texas Instruments**calculators will be allowed.

Long-sleeve work shirt (for grinding and tacking)

#### **Tools that will be supplied by the National Craft Championship Committee:**

#### **Welded Pipe Fabrication Project**

24-inch level

24-inch framing square

Speed square Torpedo level

25-foot tape measure

Wrap around Soap stone

4-inch grinder w/ 1/4-inch disc

Bandsaw

1 1/16 Wrenches

2-hole pins

Lock Jaw Pliers

Face shield

Ball Peen Hammer

Tripod stand with chain vise

Jack stand

Welding leads/ground

Tack welders to be shared by all

competitors Air Movers

#### **Threaded Pipe Fabrication**

14-inch pipe wrench 14-inch chain wrench Tripod with yoke vise

Jack stand

Threading machine 7/8 Wrenches

2-hole pins

Lock Jaw Pliers

#### 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 Pipefitting Sample Score Sheet**

Judging Criteria	Competitor Identification Numbers					
	Maximum Points					
Flange Alignment						
Proper bolt-up						
Configuration						
Threaded engagement						
Dimension tolerance						