

2025 Pipefitting Competition

FACT SHEET

Project Manager

Ronnie Balentine, S&B Engineers & Constructors

For questions related specifically to the pipefitting competition, contact Ronnie Balentine at rdbalentine@sbec.com. For all event questions, contact Jarrell Jackson, National Craft Championships director, at (202) 595-1789 or jackson@abc.org.

Specific Competition Eligibility

The pipefitting competition has no competition-specific eligibility requirements. Please refer to overall eligibility requirements listed on page 3 of the guidebook.

Written Exam

Competitors will have one (1) hour to complete the 50-question exam. Every competitor should thoroughly understand 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 Core Curriculum modules. All competitors must sit for the exam or face disqualification from the NCC. The written exam makes up 25% of one's overall competition score. ABC will provide pencils, scratch paper, and a calculator for mathematical problems (if necessary). Scientific/graphing calculators and loose notes are prohibited. No reference materials are permitted except for the 2020 NEC Code book and the Pipefitter's Blue Book. All reference materials are subject to inspection. *Please refer to the 2025 NCC Guidebook for more details.*

Practical Performance Test Description

Competitors will perform three tasks utilizing various skills within the NCCER pipefitting curriculum. The tasks will be in the areas of threaded pipe fabrication, welded pipe fabrication and flanged pipe makeup.

Pipefitting Task: Threaded Pipe Fabrication

Each competitor will be given an isometric drawing from which to work and be required to calculate material take offs and cut lengths of pipe. The pipe will then be cut, threaded and fabricated to the drawing. They will utilize pipe threading skills, math calculating skills and threaded pipe makeup skills to complete this project. Each project will have a time limit in which it must be completed.

Pipefitting Task: Welded Pipe Fabrication

EMC Span MCID 25Lang (enUS)R 0 1 4594 5000092

Pipefitting Task: Flanged Makeup

Each competitor will bolt their fabricated pipe spools into a fixture per the fabrication iso 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	Socketweld Pipe Fabrication
Pipefitting Power Tools	Butt-Weld Pipe Fabrication
Drawings and Detail Sheets	Standards and Specifications
Identifying and Installing Valves	Advanced Trade Math
Pipefitting Trade Math	Advanced Blueprint Reading
Threaded Pipe Fabrication	Advanced Pipe Fabrication

Tools Competitors Are Required to Bring

Each competitor should bring **only the items listed below** 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:

Tack welders to be shared by all
competitors
Air Movers

Sample Score Sheet

The following sample score sheet is provided to give competitors an **example** of the criteria that may be included in the pr(TJET-3(e)-3(e)ical3(t)-37 g0 G3f1.0455 0 0 1 204.92 650.38 Tm0 g01H