



27th ANNUAL SKILLS MANITOBA COMPETITION CONTEST DESCRIPTION

- **Note – Steamfitter/Pipefitter Contest to be held March 26, 2025**

CONTEST NAME: Steamfitter-Pipefitter

CONTEST NO: 81

CATEGORY: Post Secondary

CONTEST LOCATION: Red River College - Notre Dame Campus – Room J1-08

CONTEST START TIME AND DURATION:

Start: 8:30 a.m.

Duration: 6 Hours

PURPOSE OF CHALLENGE:

To assess the contestant's knowledge and skills in the ability to read drawings and fabricate custom fittings for pipe assemblies, with high regard to the aspects of quality, workmanship, and accuracy of work.

SKILLS AND KNOWLEDGE TO BE TESTED:

- Applying mathematical concepts involving planning, measuring and layout of a piping system
- Interpretation and application of drawing specifications
- Assembling and fabricating a piping system
- Measure, cut, and fabricate steel pipe and copper tube systems
- Use fabrication tools & equipment to join pipe and fittings
- Applying safe work practices

POINT BREAKDOWN / 100 TOTAL:

- TBD

NATIONAL COMPETITION ELIGIBILITY:

- A mark of **70% or higher** must be scored by the gold medalist in order to attend the National Skills Competition

EQUIPMENT, TOOLS, MATERIALS TO BE PROVIDED BY COMMITTEE:

- Benches, vices and/or tables
- Soapstone
- Consumables
- "B"- tanks c/w regulator, hose and torch kit
- Welding Machine
- Oxy-Acetylene Torch Set up
- Ridgid #15 cutters
- Master Pro-Dope
- Teflon tape
- Power cords
- 14", 18" and 24" Aluminum Pipe Wrench
- 18" hex wrench
- 12" Spud Wrench
- Tri-Stand Chain Vice
- V-head high pipe stand - 28" - 52"
- Copper Reamer
- 535 Threading Machine Complete w/ die heads 1/2" – 2"
- Nipple Chuck complete
- 10" Half round file c/w handles
- Round rattle file c/w handle
- Hacksaw
- 12" Adjustable Wrench
- 8" Adjustable Wrench
- Tube benders
- 24" Level
- 24" Square
- Flaring tool
- Ear Plugs
- Dust Mask
- Milwaukee Grinder & Die Grinder
- Torpedo Level

- Lincoln Smoke Eater

EQUIPMENT, TOOLS, MATERIALS TO BE SUPPLIED BY COMPETITOR:

- Work Gloves
- Welding Gloves
- Welding Mask
- Tape Measure
- Writing utensils
- Calculator
- IPT Pipe Trades Handbook

WORKSITE SAFETY RULES / REQUIREMENTS:

- Hearing protection, safety glasses, and steel toed boots must be worn at all times

SPECIAL CONDITIONS / ADDITIONAL INFORMATION:

THE IMPORTANCE OF SKILLS FOR SUCCESS FOR CAREERS IN THE SKILLED TRADES;

In response to the evolving labour market and changing skill needs, the Government of Canada has launched the new Skills for Success (former Essential Skills) model defining nine key skills needed by Canadians to participate in work, in education and training, and in modern society more broadly. SCC is currently working with Employment and Social Development Canada (ESDC) to bring awareness of the importance of these skills that are absolutely crucial for success in Trade and Technology careers. Part of this ongoing initiative requires the integration and identification of the Skills for Success in contest descriptions, projects, and project documents. The following 9 skills have been identified and validated as key skills for success for the workplace: 1.Numeracy, 2.Communication, 3.Collaboration, 4.Adaptability, 5.Reading, 6.Writing, 7.Problem Solving, 8.Creativity and Innovation, 9.Digital

FOR MORE INFORMATION CONTACT TECHNICAL COMMITTEE MEMBER:

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