



28th ANNUAL SKILLS MANITOBA COMPETITION CONTEST DESCRIPTION APRIL 9, 2026

CONTEST NAME: PLUMBING

CONTEST NO: 15

NOTE:

Post-Secondary Level: Maximum 10 competitors

CONTEST LOCATION: Red River College – Notre Dame Campus
J107

CONTEST START TIME AND DURATION:

7:30 AM for 6-1/2 hours

Please show up at 7:15 AM for orientation

PURPOSE OF CHALLENGE:

To assess the contestant's knowledge and skills in the installation of a piping system with high regard to the aspects of quality workmanship, proficiency in pipe joining techniques and accuracy of work within a specified time frame.

SKILLS AND KNOWLEDGE TO BE TESTED:

- Apply mathematical concepts involving parallel, 60, 45 and 22 ½ offsets in a piping system.
- Interpreting and applying the blueprint specifications.
- Assembly of various piping systems
 - Steel – threaded, Mega Press
 - Copper – hard and soft soldering, Pro Press
 - PVC- solvent welding
- Applying safe work practices

POINT BREAKDOWN / 100% TOTAL:

- Accuracy of installation approximately 40%
- Quality of workmanship approximately 30%
- Piping pressure test approximately 20%
- Safe work practices approximately 10%
- Full marks for dimensions within 2mm
- Half marks for dimensions within 4 mm
- Point deduction per additional material request 10 points
- Completion time will be utilized as a tie breaker

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:

Pipe threader, tripods, soldering torches (B tank turbo), cordless drills, Pro/Mega Press Tool, adhesives, Teflon, threading paste, solder and brazing materials, flux etc.
All workstations will be supplied with the required materials including pencil and paper.

EQUIPMENT, TOOLS, MATERIALS TO BE SUPPLIED BY COMPETITOR:

All competitors must supply their own personal protective equipment, hand tools, pocket calculators and a metric 25mm wide measuring tape. *See notes for tool list*

WORKSITE SAFETY RULES / REQUIREMENTS:

All Competitors should address the dangers of long hair, jewelry, etc.

Personal protective equipment that must be worn at all times in the competition area

- Approved Steel toe boots
- Protective eye wear
- Hearing protection (will have disposable ear plugs at venue)
- Long sleeve shirt

Additional personal protective equipment to be used as required

- Gloves

SPECIAL CONDITIONS / ADDITIONAL INFORMATION:

1. No project specific aids, tools or jigs
2. Proper pipe joint engagement is mandatory
3. There will be NO onsite instruction of pipe joining methods
4. Project plans and documents will be released at the end of March/2014

Tool List

- Pocket calculator
- 1 meter metric metal rule and/or a 25mm wide measuring tape (both are not required, but are recommended)
- 12 inch and 14 inch pipe wrench
- 24 inch level and 9 inch torpedo level
- 12 inch metal saw with spare blades
- 8 and 12 inch adjustable wrenches
- Copper tube cutters ½ - ¾ inch

- 1 ½ to 4 inch plastic pipe cutters (or equivalent)
- Claw/Framing hammer
- ½ round steel file
- Plumb line
- Small combo square
- Deburring tools
- Competitor may bring a IPT's Pipe Trades Handbook into the competition

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

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 PLEASE CONTACT: TECHNICAL COMMITTEE MEMBER

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