



## **27th ANNUAL SKILLS MANITOBA COMPETITION CONTEST DESCRIPTION \*\*\*Feb 20th, 2025\*\*\***

**CONTEST NAME:** Sprinkler Fitter

**CONTEST NO:** 55

**CONTEST LOCATION:** Red River College - Notre Dame Campus – Room J 1-08

**CONTEST START TIME AND DURATION:** 8 AM-4PM

### **PURPOSE OF CHALLENGE:**

To assess the contestant's knowledge and skills in the fabrication and installation of a fire sprinkler system and components with high regard to the aspects of quality of workmanship, proficiency of piping/system component installation and accuracy of work within a specified time frame.

## SKILLS AND KNOWLEDGE TO BE TESTED:

- Applying mathematical concepts involving planning, measuring, layout and installation of a piping system<sup>1,7</sup>
  - Interpretation and application of blueprint specifications<sup>5,7</sup>
  - Recognition of types of systems, setup and troubleshoot with use of manufacturer's data<sup>7</sup>
  - Assembling and fabricating a piping system<sup>7</sup>
    - o Measure, cut, and fabricate steel pipe and fittings<sup>1</sup>
    - o Use tools & equipment to join pipe, fittings and system components<sup>7</sup>
    - o Applying safe work practices and strong positive work ethic
- Skills for Success – 1Numeracy, 5Reading, 7Problem Solving*

## POINT BREAKDOWN / 100 TOTAL:

TASKS	/100
Steel Piping Fabrication	15
Steel Piping Installation	15
CPVC Piping Fabrication	10
CPVC Piping Installation	10
Dimension Calculation	10
Use of Tools	10
Sprinkler Installation	10
Safety	10

### Point deduction:

- Points deduction for measurements outside of tolerance
- Points deduction for wasted material
- Points deduction for safety infractions

## 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 and/or tables
- Chain Vices
- Pipe Stands
- 9" level
- Power cords (GFI)
- Pipe cutters
- Roll groovers
- Air groovers
- Ridgid 300 Power Machine
- Bastard half round file
- 10" channel lock pliers
- 10" crescent wrench
- CPVC Reamer
- CPVC Solvent Cement

### **EQUIPMENT, TOOLS, MATERIALS TO BE SUPPLIED BY COMPETITOR:**

- Tape measures
- Paint markers/ Pencils

### **WORKSITE SAFETY RULES / REQUIREMENTS:**

- **All College Shop Safety Rules will be followed during the competition. Shop rules are posted on the door of the shop space.**

### **SPECIAL CONDITIONS / ADDITIONAL INFORMATION:**

Contest specific rules cannot contradict or take priority over the Competition Rules. They do provide specific details and clarity in areas that may vary from contest to contest. Any additional contest rules will be reviewed during the competitor orientation.

## **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:**

Mark Rasmussen  
Red River College  
[mrasmussen@rrc.ca](mailto:mrasmussen@rrc.ca)