



**SkillsCompétences
Canada**

New Brunswick/Nouveau-Brunswick

SKILLS CANADA NB PROVINCIAL COMPETITION

CONTEST DESCRIPTION DOCUMENT	
Competition Date	Wednesday February 15, 2016
Competition location	CCNB Dieppe
Trade Name	Sprinkler Systems
Level	Post-Secondary

1. CONTEST INTRODUCTION

1.1 Purpose of the Challenge.

To assess the contestant's knowledge and skills in the fabrication, installation, setup, operation and troubleshooting 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.

1.2 Duration of contest.

7 hours

1.3 Skills and Knowledge to be tested.

- Applying mathematical concepts involving planning, measuring, layout and installation of a piping system.
- Interpretation and application of blueprint specifications.
- Recognition of types of systems, setup and troubleshoot with use of manufacturer's data
- Assembling and fabricating a piping system
 - measure, cut, and fabricate steel pipe and fittings
 - use tools & equipment to join pipe, fittings and system components
 - applying safe work practices and strong positive work ethic

**SAFETY AWARENESS/REQUIREMENTS WILL BE MAINTAINED TO
MINIMUM INDUSTRY STANDARDS AT ALL TIMES!**

2. Tasks that may be performed during the contest

- Interpreting and applying the blueprint specifications
- Assembly of various pipe and fitting systems
- Carbon steel grooved pipe. Apply safe work practices All dimensions will be taken from the designated centerline or benchmarks unless directed otherwise
- Setup/Activation/Troubleshooting of Dry Pipe Valve:
 - Reliable Model: DDX
- Each Competitor will have (7 Hours) on the valve to perform the above listed tasks.
- Tool inspection prior to event
- There will not be any onsite pipe joinery technique instruction
- Proper insertion for all pipe joint is mandatory
- It is to be understood that throughout the competition, safety and project judging will be ongoing
- No project specific aids, tools allowed
- Dimensions may be modified before competition

EQUIPMENT, MATERIAL, CLOTHING

3. Equipment and material provided on site:

- Pencil/paper/calculator
- Power cords (GFI)
- Pipe Cutters
- Drill
- Hole saw kit
- Screwdriver multi-tip
- Roll of 1" sand cloth
- Wire brush
- Tape measure
- Bastard half round file
- Ball-peen hammer
- 10" channel lock pliers
- 10" crescent wrench
- 12" combination square
- Benches, vices and/or tables
- 9" level

- Paint markers

4. Equipment and materials to be provided by the competitor

- No equipment or material will be provided by the competitor

5. Required clothing (Provided by competitor)

- Coveralls / overalls allowed if sleeves used
- No jewellery
- Long hair must be tied back and concealed
- No cell phones or electronic devices allowed

SAFETY REQUIREMENTS

6. List of required personal protective equipment (PPE) provided by competitor

- CSA approved safety shoes

ASSESSMENT

7. Point breakdown

POINT BREAKDOWN	/100
Piping Fabrication and Installation	70
Setup/Activation/Troubleshoot Valve	20
General Safety	10
Point deduction: Full points for dimensions within 1/8" Half points for dimension within 1/4" Points deduction for wasted material Points deduction for safety infractions Points deduction for failure during Setup/Activation/Troubleshooting portion	

ADDITIONAL INFORMATION

8. Tie Procedure (No ties are allowed)

In the event of a tie, the competitor with the lowest amount of deductions will be declared the winner.

