



Provincial Scope Document

PLUMBING (Post Secondary) 2010

Contest Length: 8 hrs
Orientation: 7:30am

Check in time: 7:00 am
Contest Start: 8:00am

Contest Sponsors: YTBD

Purpose of the Challenge:

To assess the contestant's knowledge and skills in the competencies of the trade of Plumbing **with high regard to the aspects of quality, workmanship and accuracy of work.**

Skills & Knowledge to be Tested:

- Applying mathematical concepts involving layout and fabrication.
- Interpreting and applying the directions for the project.
- Assembling of various piping systems
- Assembly of Pipe and Fittings
 - Copper – soldering, pro- press
 - Malleable Iron- cutting and threading
- Assembly of a piping system.
- Testing of a piping system.
- Applying safe work practices.

Safety awareness/requirements will be maintained to minimum industry standards at all times. A contestant will not be allowed to compete without the safety equipment noted on this document.

Clothing Requirements:

Supplied by Contestant:

Competitors must wear the appropriate clothing and personal protective equipment (PPE): CSA approved hardhat, safety boots, safety glasses or goggles, hearing protection and gloves. The contestant must address the dangers of long hair, jewelry, loose fitting clothing, etc.

Equipment / Tools / Materials

Supplied by Committee:

Tripods, soldering torches, adhesives, soldering and brazing materials, and other items are provided. All workstations will be supplied with the required materials.

Supplied by Contestant:

The contestant must supply his or her own hand tools, pocket calculators, and a measuring tape in millimeters (1" wide recommended). See notes for tool list.

Career Related Skills Exhibited

Mathematical problem solving, safe work practices, proper use of tools, correct joinery techniques, blueprint and / or specification interpretation ability and a strong positive work ethic.

Judging / Distribution of Marks

The project will be judged on the following criteria:

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| • Accuracy of Installation (approximately) | 50% |
| • Quality of Workmanship (approximately) | 30% |
| • Water Piping Pressure Test (approximately) | 20% |

Additional Notes:

- Full marks for dimension within +/- 2mm
- Half marks for dimension within +/- 3 to 4mm
- Point deduction per material request

Suggested Tool List:

Supplied by the Contestant:

- Pocket calculator
- torpedo level
- 8" vise grip
- striker for soldering torch
- Pipe cutters for ½" to ¾" diameter copper pipe
- Measuring tape in millimeters (1" wide recommended)
- Pencil
- Notepad

Technical Committee

Richard Gibson Technical Chair

richard@piabschool.ca

Gold medal winners at the BC Skills Competition are eligible to compete at the Canadian Skills Competition

Skills Canada BC reserves the right to update contest information. Please check the website for changes.