

Provincial Scope Document

PLUMBING (Post-Secondary) 2018

Contest Length: 6 hrs

Check in time: 7:30 am

Contest Start: 8:00 am

Contest Sponsors:

TRU, UAPICBC, BCIT, EMCO

Technical Committee

Pat Barringer Technical Committee Chair

pbarringer@tru.ca

John Michalec

john.michalec@uapicbc.ca

Ryan Thomas

ryan_thomas@bcit.ca

Jeff Doolan

Jeff.Doolan@kpu.ca

Aman Kajla

akajla@bcit.ca

Purpose of the Challenge:

To assess the competitors knowledge and skills of plumbing materials and assemblies. With high regard to the aspects of quality, workmanship and accuracy of work within a specified time frame.

Skills and Knowledge to be tested

Application of Mathematical concepts involving piping and piping layouts.

Reading and interpreting diagrams and specifications

Assembly of pipe and fittings, which may consist of:-

System 15 DWV pipe, and fittings.

MJ pipe and fittings

DWV copper pipe and fittings

Bending rigid copper pipe using Rigid 310 tubing bender□

Support fasteners [uni-strut,
riser clamps, and 3/8" ceiling plates

3/8" ready rod

Measurements to be taken from horizontal and vertical bench marks.

Safe work practices

Equipment / Tools Supplied by Skills Committee

Plumbing material

Testing equipment

Chain vises

Soil Pipe Cutters

5/8 pipe copper benders Rigid #310

Platforms

Cordless drills

Robertson screw bits

Screws

Half round file

Solvent cements

Rags/hand cleaner

Spare hand tools

Socket/ratchet kit

Soldering equipment and torch

All material to complete the project

Supplied by contestant

Claw hammer

•Hacksaw c/w spare blade

•Metric tape measure

•Framing square

•Torpedo level

- 2ft.level
- Plumb bob
- Chalk line
- 5/16 nut driver
- Robertson #8 screwdriver/#10 screwdriver
- Blade screwdriver medium
- Blade screwdriver large
- Water pump pliers
- Adjustable wrench large
- Adjustable wrench small
- Pencil/marker
- Scrap paper
- Calculator

Safety

It is mandatory for all contestants to wear CSA approved safety equipment (glasses, and boots) prescription eye wear must have safety shields.

Jewelry such as rings, bracelets and necklace or any other items thought to be unsafe by the judges must be removed.

Proper shop attire must be worn no loose or baggy clothing .Any attire deemed unsafe by the judges must be removed.

Long hair must be tied back.

The use of cellular device in the competition area not allowed.

Competition Judges have the final Authority over matters of Safety.

Judging Criteria

Accuracy of install	60%
Quality of Workmanship	20%
Pressure Test	15%
Safety	5%
Total	100%

Full marks for dimensions within +/- 3mm

Half mark deducted for every 3mm or part there off past the above tolerance

Point deducted per item for additional material request up to 10 Points

Completion time will be used as a tie breaker if two or more competitors complete the project with the same number of marks.

Safety glasses will be worn at all time in the competition area. There will be a 1 (one) point deduction for each safety infraction.

All pipes to be pressure tested

The drawing on this document may change up to 30% prior to competition date.