



## **Provincial Scope Document**

PLUMBING (Post-Secondary) April 17, 2024

Contest Length: 6 hours

Check in time: 7:30 am

Contest Start: 8:30 am

## **Contest Sponsors:**

TRU, UAPICBC, BCIT, UFV, Riverside College, KPU, OK, Camosun

## **Technical Committee**

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## **Purpose of the Challenge:**

To assess the competitor's knowledge and skills of plumbing materials and assembly. With an emphasis on 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

Cast Iron

DWV copper

Support fasteners (uni-strut)

Riser clamps, 3/8" ceiling plates, 3/8" redi rod

Measurements to be taken from horizontal and vertical bench marks.

Safe work practices

### **Equipment/Tools Supplied by Skills Committee**

Plumbing materials

Testing equipment

Chain vises

Soil Pipe Cutters

Platforms

Cordless drills

Robertson screw bits

Screws

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 and 4ft 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%
<b>Total</b>	<b>100%</b>

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 and CSA approved footwear will be worn at all times in the competition area. There will be a 1 (one) point deduction for each safety infraction

All pipes to be pressure tested

The distributed drawing may change up to 30% prior to the competition date