

Nova Scotia Skills Competition

Competition Scope

Secondary Plumbing

School: Memorial Composite High School

Competition Date: March 28, 2012

Duration of Contest: 6 hrs

Number of Stations: 8

Purpose of Challenge:

To assess the contestant's skills and workmanship of a piping system within a certain time frame with a high regard for accuracy of measurements, quality of work and safe work practices.

Skills and Knowledge to be tested:

Reading and interpreting blueprints

Applying mathematical concepts involving 60,45,22-1/2 degree offsets

Assembling of pipe and fittings.

Steel threaded

Copper soldered

PVC plastic solvent weld

Bending of copper pipe using Ridgid mechanical bender, model 310/3

Apply safe work practices

Clothing requirements:

(Competitor must supply)

Contestants must wear coveralls, and approved PPE, safety shoes or boots, safety glasses (worn at all times), gloves (for hot work)

Equipment and materials:

Supplied by the committee

Rigid pipe threaders, tripod vises, tube bender, soldering torches, adhesives, Teflon tape, pipe compound, and soldering materials.

Competitors must supply:

The constants must supply their own hand tools, pocket calculator, measuring tape in millimeters, and PPE equipment.

Career related skills:

Safe work practices, mathematical problem solving, proper use of tools, correct pipe assembly techniques, blueprint interpretation and a positive work ethic.

Point Breakdown:

Accuracy of measurements	40%
Quality and neatness	40%
Air pressure test	10%
Safe work practices	10%

Tool List: To be supplied by competitor

Calculator	12" pipe wrench	24" level
Measuring tape	14" pipe wrench	PVC saw
Utility pliers	9" level	Adjustable wrenches

Copper pipe cutter

Mini pipe cutter

Black iron pipe cutter

Plastic pipe cutter

Cordless drill

Carpenter hammer

½ round steel file

Pencil/soapstone/marker

Tri square

Utility knife

Deburring tool

Additional Notes:

Full marks for dimension within 2mm

Half marks for dimension within 3 to 4mm

Point deduction per material request

Point deduction for deviation from plan

All dimensions shall be in millimeters

All dimensions will be taken from the centerline and benchmarks

Completion time will be used for a tie breaker

Orientation will be morning of competition

Judges: TBA