2018

SCNC
SKILLS CANADA
NATIONAL COMPETITION

OCMT
OLYMPIADES CANADIENNES
DES MÉTIERS ET
DES TECHNOLOGIES

Skills Compétences
Canada
Edmonton 2018

TEST PROJECT / PROJET D'ÉPREUVE

SPRINKLER SYSTEMS
RÉSEAUX D'EXTINCTEURS AUTOMATIQUES

POST- SECONDARY /
NIVEAUX POSTSECONDAIRE

Part 1: Piping Fabrication (4 Hours)

Competitor is required to properly measure, cut, groove, and install 9 pieces of pipe to connect to water source and drains. Dimensions are to be interpreted on-site. Piping will be 3 parallel 45° runs.

Step 1: Calculate pipe dimensions interpreted from onsite drawings. **STOP for assessment**

Step 2: Measure and cut the 9 pieces of Schedule 10 black steel pipe required with RIDGID #4-S cutters. Three 4", Three 3", and Three 2".

Step 3: Groove pipe with RIDGID #915 Air Groovers, PT-100A Grooved Pipe Diameter Tape, and prep ends for install. **STOP When ready for installation for Assessment**

Step 4: Install Pipe using Vic-Wrenches. **STOP When done for Assessment**

Part 2: Valve Set-up/Activation/Troubleshoot/Maintenance (8 Hours)

Competitor is required to set-up/activate/troubleshoot/perform routine maintenance aspect of each Preaction/Dry/Deluge valve properly and efficiently. (1 hour for each Valve and the tasks it requires to be performed):

Each of the below valves will be set up as either a Deluge Valve, Dry Valve, or Preaction Valve (Non-Interlock, Single-Interlock, or Double-Interlock).

- Reliable Model: DDX
- Tyco Model: DV-5
- Viking Model: G2000P
- Viking Model: F-1
- Victaulic Model: Firelock NXT S/768
- Victaulic Model: Firelock NXT S/769

All operation manuals are available on each manufacturer's respective website.

Step 1: Set-Up valve to full ready status. **STOP when done for Assessment**

Step 2: Identify components indicated by Judge and explain their operation. **STOP for Assessment**

Step 3: Return valve to initial state without tripping valve. **STOP when finished for Assessment**

Step 4: Perform required maintenance item as indicated by NTC. **STOP when finished for assessment.**

Step 5: Repeat for remaining valves.

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