



Provincial Scope Document

MECHATRONICS (Post Secondary) 2008 Team of Two

Contest Length: 6 hrs

Check in time: 8:00

Contest Start: 8:30

Contest Sponsor: Festo

Purpose of the Challenge:

Open to Electro technical and Mechanical Engineering Techniques sectors. By means of a practical exercise, measure certain skills that every technician must acquire in the field of control and automation.

Skills & Knowledge to be Tested:

- Interpret and use electronic, electrical or mechanical schematics.
- Render operational and modify sequential mechanism that have a programmable logic controller.
- Commissioning electrical, pneumatic and mechanical systems.
- Troubleshooting
- Speed of execution.

General Requirements:

- Understand the programming of a PLC (Allen-Bradley).
- Know how to look for information efficiently in industrial equipment documentation.
- Skilful troubleshooting techniques.

Equipment / Tools / Materials

Supplied by Committee:

- MPS (Modular Processing Stations)
- Allen-Bradley PLC with programming software
- Pneumatic consumables

Supplied by Competitors:

- Multimeter (V.O.M.)
- Various screwdrivers.
- Set of ALLEN metric keys.
- Set of open metric keys.
- Wire strippers and cutter

Judging / Distribution of Marks

- Multimeter (V.O.M.)
- Various screwdrivers.
- Set of ALLEN metric keys.
- Set of open metric keys.
- Wire strippers and cutter

Technical Committee

Mick Andic
Jim Budihardjo
Dave Lewis

Technical Chair

Mick_Andic@bcit.ca

TIME TABLE

8:00 – 8:30	Registration
8:30 – 9:00	Orientation
6 hours competition plus 1 hour lunch	

Gold medal winners at the BC Skills Competition are eligible to compete at the Canadian Skills Competition May 25-28, 2008, 2008 in Calgary, Alberta.

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