



## 2010 13<sup>th</sup> ANNUAL SKILLS MANITOBA COMPETITION CONTEST SCOPE

**CONTEST NAME:** Automation and Control

**CONTEST NO:** 19

**LEVEL:** Post Secondary - 2 competitors per school.  
Maximum of 8 competitors in total

**CONTEST LOCATION:** Red River College – Notre Dame Campus - B129

**CONTEST START TIME AND DURATION:**

9:00 am  
3 hours

**PURPOSE OF CHALLENGE:**

Wire and program an industrial control system.

**SKILLS AND KNOWLEDGE TO BE TESTED:**

- Designing, wiring, and programming of an automated control system typically used in the processing, batching, and manufacturing industries.

**POINT BREAKDOWN / 100% TOTAL:**

To be announced day of competition

**EQUIPMENT, TOOLS, MATERIALS TO BE PROVIDED BY COMMITTEE:**

PLC  
- Omron CPM1A – 30 CDR – A – V1  
- Laptop computer c/w CX programmer software  
- All wiring materials

**EQUIPMENT, TOOLS, MATERIALS TO BE SUPPLIED BY COMPETITOR  
(suggested):**

- electrician's pliers, needle nose pliers, diagonal cutting pliers, set of Robertson screwdrivers size 6, 8, and 10, set of Phillips screwdrivers, set of flat-head screwdrivers, wire strippers, pencil

**WORKSITE SAFETY RULES / REQUIREMENTS:**

Contestant must provide their own safety equipment (all equipment must be CSA approved). Safety equipment must be worn on the competition site. No contestant will be allowed to take part in the competition if they do not have the required equipment or if they do not follow the safety rules and regulations.

- Steel toe work boots
- Safety glasses or goggles
- Gloves

**SPECIAL CONDITIONS / ADDITIONAL INFORMATION:**

If any competitor requires an Omron PLC please contact me to make special arrangements.

**FOR MORE INFORMATION PLEASE CONTACT:**

Tony Creta – [tcreta@rrc.mb.ca](mailto:tcreta@rrc.mb.ca)