

# 2012 Provincial Skills Competition

## Scope Document

Event: CNC Machining

Level; Post Secondary

Start Time: March 16 2012

Location; SIAST Wascana Campus Rm. 164

Trade number 6

Duration; 6 hrs

### Purpose of the Challenge:

To assess the contestants CNC machining operational skills and techniques using “G” and “M” code programming.

### Skills and Knowledge to be tested:

The contest will occur on one day. On the day of competition there will be a HAAS simulator and HAAS TL-1 cnc lathe.

### Practical Skills and knowledge may be based on:

HAAS Lathe simulator

- write program into simulator
- Graphically simulate a program
- Transfer program to disk

HAAS TL-1 cnc lathe

- Console operational test
- turn project to drawing specifications

### Theory Exam:

There will be NO theory exam.

### Equipment, tools, supplies, clothing:

### Supplied by committee;

The following will be supplied to each contestant:

- appropriate measuring tools for the project
- appropriate cutting tools and holders
- hand tools

Note; The contestants may be required to share some of the supplied tools and equipment.

### Project materials

- mild steel

## Supplied by competitor

Contestants may bring the following optional items

- Measuring tools, limited to internal/external micrometers, vernier calipers, rules, scribes
- Machinery handbook, ready reference, calculator

## Safety Requirements

Contestant must supply:

- CSA approved footwear
- CSA approved glasses
- Competitors will be required to wear a shop coat or equivalent
- Long hair must be tied back or netted

Note:competitors will not be allowed into the competition area without the required safety equipment

## Judging Criteria

Points Breakdown /100 total

- |   |    |
|---|----|
| - compliance with occupational health and safety regulations      | 10 |
| -console operational test   | 30 |
| -compliance with dimensions, tolerances as specified in blueprint | 45 |
| -proper use of tools and equipment                                | 15 |

Total 100

**Additional notes:** orientation will take place at 8:00 AM Friday March 16/2012