

# 2010 Provincial Skills Canada Competition

## Scope Document

Edmonton Expo Centre, Edmonton

May 12 & 13, 2010

<b>EVENT:</b> Mechanical CADD	<b>LEVEL:</b> Secondary
<b>START TIME</b> May 12 <sup>th</sup> : 8:00 am May 13 <sup>th</sup> : 8:00 am	<b>LOCATION:</b> Hall B, Edmonton Expo Centre, Edmonton
<b>THEORY EXAM:</b> No	<b>DURATION:</b> 10 hrs
<b>WORLDSKILLS TRADE #:</b> 5	<b>REGIONALIZED EVENT:</b> No

### GENERAL DESCRIPTION

#### Purpose of the Challenge:

Evaluate each contestant's preparation for employment in the field of engineering design and drafting using CAD and to recognize outstanding students for excellence & professionalism in their field.

#### Skills and Knowledge to be Tested:

- Understand and use fundamental commands for producing a scaled 2D CAD drawing
- Use measuring instruments to calculate basic dimensional properties
- Use CAD software to produce 3D parametric models
- Use Geometric Dimensioning and Tolerancing (GD&T)

### EQUIPMENT & MATERIALS

#### Equipment and Materials Competitors Must Supply:

- Calculator
- Pencils
- Measuring Instruments (calipers, scales)
- Reference Material (No photocopies allowed) – Textbooks, Handbooks. etc.
- USB Memory Stick

Please Note:

All other equipment must be approved by the Provincial Committee

#### Equipment and Materials supplied by Committee:

- Windows based computer, monitor, & mouse
- Software
  - AutoCAD
  - Inventor
  - SolidWorks

Competitors who want to use other software must check with the technical chair



## RELATED CAREER AND TECHNOLOGY STUDIES MODULES:

Module	DES 1010
Module	DES 1030 - 1060
Module	DES 2010 - 2060
Module	DES 3100

Descriptions of all modules are located at the following website:  
<http://www.education.gov.ab.ca/cts/design/>

## JUDGING CRITERIA

Point Breakdown / 1000

Evaluation Criteria: Subjective and Objective

- Presentation
- Dimensioning
- Design accuracy

Please Note: A detailed evaluation criteria will be given at the contest.

## ADDITIONAL NOTES

Competitors may supply their own software, but must follow these guidelines:

- Software must be pre-approved by the committee 1 week in advance (pre-approval may be obtained by contacting the committee chair via his/her email address which is provided below)
- Competitors supplying their own software must supply their own computer system pre-loaded with their pre-approved software

In the event of a tie, the winner will be determined by rank order of each task.

## COMMITTEE MEMBERS

Chris Serran  
Jeff Christiansen  
Lloyd Bloomfield  
Sorrell Whitrow

Waterous Power Systems  
Xtreme Energy Group  
Edmonton Public Schools

Questions or comments are welcome and may be directed to the committee chair, Chris Serran, at [cserran@waterouspower.com](mailto:cserran@waterouspower.com)