



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

**CONTEST NAME:** Website Development

**CONTEST NO:** 17

**LEVEL:** Secondary & Post Secondary

**CONTEST LOCATION:**

Red River College – Princess Campus  
160 Princess Street  
Winnipeg, Manitoba  
R3B 1K9

**CONTEST START TIME AND DURATION:**

April 8th, 2010      Orientation 7:30AM    5.5 hours  
Contest 8:00AM – 11:30AM & 12:00PM – 1:30PM

**PURPOSE OF CHALLENGE:**

To provide competitors the opportunity to test themselves in real world web development skills. The level of knowledge and skill to win this competition is high. This is not just a design competition, but a development competition.

Note: Scope is subject to change due to equipment availability and/or at the discretion of the technical committee chairperson.

## **SKILLS AND KNOWLEDGE TO BE TESTED:**

Competitors will be tested on their ability to develop a web site for display on an internet server via a web browser to a minimum XHTML standard 1.0 Transitional with CSS 2.0.

- Competitors will produce a fully functional web site that will display specific information (the project information will be provided at the competition).
- Students will need to have strong knowledge of XHTML 1.0, CSS 2.0, and PHP / MySQL database connectivity. (PHP / MySQL database connectivity knowledge is optional for secondary school competitors. Note- Not optional at Skills Canada Competition)
- Knowledge of JavaScript, and/or Flash will be required for an optional task.
- Students should have the knowledge of how to develop web page templates using graphic design tools such as Adobe Photoshop or Adobe Fireworks.
- Students must have the skills to take this knowledge and develop a site that displays data stored in an existing database and allows authorized users to modify data in the database. (Database connectivity knowledge is optional for secondary school competitors. Note - Not optional at Skills Canada Competition) *Note: Students will not be required to build the database. Skills Canada National Competition requires competitors to construct the database*
- This will require knowledge of how XHTML, PHP, and MySQL work together. Competitors will need to know how PHP connects to the database, selects data, and formats and displays the data using XHTML. Competitors will also need to know how to use XHTML forms and PHP server side scripts to add to a MySQL database table. PHP and MySQL are chosen because they are available free under public license to educational institutions and students. They will run on web server platforms including Windows 2000, Windows XP, UNIX, Linux, and Mac OS X Server. Competitors can learn operations on a single computer with Apache, PHP and MySQL properly configured, by using localhost as the domain. Any student or instructor wanting technical assistance is welcome to contact the technical committee, but this should be undertaken as early as possible. No technical assistance will be given in the two weeks prior to the competition. (Database connectivity knowledge is optional for secondary school competitors)

Some useful links are: <http://ca.php.net/tut.php>  
<http://www.w3schools.com/php/default.asp>

## **POINT BREAKDOWN (1000 POINTS):**

### **Post Secondary**

This section includes a general description of the point breakdown. A more specific breakdown will follow with the problem document. Please note that the criteria in which students are judged on is at a higher level in the post-secondary competition.

### **Visual Design: 300**

- Includes layout, typography, visual hierarchy, and other elements of graphic and interface design

**Technical Elements: 300**

- Includes proper syntax in XHTML 1.0 Transitional and CSS 2.0 tags, and in JavaScript code
- Use of comments and alt tags
- Construction of XHTML form and table
- Function and ease of use
- Cross browser support

**Database Connectivity: 300**

- Use of proper syntax in php scripts
- Use of comments
- Proper function and error reporting

**Rich Media Element: 100**

- Creation of a Flash animated introduction or banner

**Secondary**

This section includes a general description of the point breakdown. A more specific breakdown will follow with the problem document. Please note that the criteria in which students are judged on is at a higher level in the post-secondary competition.

**Visual Design: 400**

- Includes layout, typography, visual hierarchy, and other elements of graphic and interface design

**Technical Elements: 400**

- Includes proper syntax in XHTML 1.0 Transitional and CSS 2.0 tags, and in JavaScript code
- Use of comments and alt tags
- Construction of XHTML form and table
- Function and ease of use
- Cross browser support

**Optional Element: 200 Choose one**

- Creation of a Flash animated introduction or banner
- Creation of a JavaScript to validate form entries
- Database Connectivity
  - Use of proper syntax in php scripts
  - Use of comments
  - Proper function and error reporting

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

- Pencils and Paper
- Win XP based computers – specs not available at this time
- Web server running PHP and MySQL versions not available at this time
- Current, supported version of Adobe software
- HTML Editors:
  - HTML Kit
  - Notepad ++
  - EditPlus
  - UltraEdit
  - Textpad
  - Metapad
  - PHP Designer
- Versions and software subject to change. The specific lab setup cannot be presented at this time. Details will be updated as soon as information is available.
- Competitors with specific software requests should make them immediately for them to be taken into consideration.

### **EQUIPMENT, TOOLS, MATERIALS TO BE SUPPLIED BY COMPETITOR:**

- Portable audio players allowed, subject to inspection
- Headphones
- Cell Phone connections are strictly prohibited. Cell phones with music player functions will be permitted provided the phones are set to “airplane-mode”

### **WORKSITE SAFETY RULES / REQUIREMENTS:**

- No food or beverages at workstations exception for water in closed containers
- No outside resources, books, web pages, data storage devices allowed
- Portable audio players allowed, subject to inspection. No devices of any kind may be connected to workstations
- No headwear, no logos or trademarks on clothing. See provincial competitor guidelines

**FOR MORE INFORMATION PLEASE CONTACT:**

**TECHNICAL COMMITTEE**

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