



## 19<sup>th</sup> ANNUAL SKILLS MANITOBA COMPETITION CONTEST DESCRIPTION

Competition Year	2016
Competition Location	The Roblin Centre – RRC
Trade Number	17
Trade Name	Website Development
Level	Secondary & Post-secondary
Max Number of Competitors	8 for each level
Duration of Contest	5.5 hours

\*\* Please note: The Provincial Technical Committee reserves the right to make changes based on the competition scope released in a timely manner by the National Technical Committee. Please check back on this scope document prior to the Provincial Skills Competition.

### 1. CONTEST LOCATION

#### **Red River College – The Roblin Centre**

160 Princess Street

Winnipeg, Manitoba

R3B 1K9

Computer Lab/Room to be determined at a later date

### 2. CONTEST START TIME AND DURATION

Contest Date: **Thursday, April 14th, 2016**

Orientation: **7:50 AM**

Contest: **8:00 AM – 11:30 AM [Lunch Break] 12:00 PM – 2:00 PM**

Total Hours: **5.5**

### 3. PURPOSE OF CHALLENGE

The goal is to provide an opportunity for students to demonstrate their knowledge and skills in the many facets of web site development.

### 4. SKILLS AND KNOWLEDGE TO BE TESTED

This modular competition will test the competitor's knowledge and skills dealing with Graphics for the web, Web Design Principles (colour, typography, and structure), HTML5, CSS3, PHP5, JavaScript, JQuery with optional elements in MySQL and AJAX. The project information will be provided at the competition.

**Note** - PHP to MySQL database connectivity knowledge is optional for secondary school competitors but NOT optional at Skills Canada Competition.

Competitors should have the knowledge of how to develop web page templates using graphic design tools.

**Note** - Competitors will not be required to build the database. Skills Canada National Competition requires competitors to construct the database.

## POINT BREAKDOWN (100 POINTS)

### 5. 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 competitors are judged on is at a higher level in the post-secondary competition.

#### Visual Design: 30

- Includes layout, typography, visual hierarchy, and other elements of graphic and interface design
- Optimized graphics
- Cross-browser compatibility

#### Technical Elements: 30

- Includes proper syntax in HTML, CSS, PHP, and JavaScript code statements
- Use of comments and alt tags
- Interactivity across multiple size screens (responsive)
- Function and ease of use
- Cross browser support

#### Database Connectivity: 30

- Use of proper SQL syntax in PHP scripts
- Read and write functionality to the database
- Proper error handling and reporting
- Relevant data and correct use of data-types

#### Client Side Scripting: 10

- Use of JavaScript, AJAX and/or jQuery plug-in(s) in site (form validation, menus, font-size option, etc.)

### 6. 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 competitors are judged on is at a higher level in the post-secondary competition.

#### Visual Design: 40

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

- Optimized graphics
- Cross-browser compatibility

#### **Technical Elements: 40**

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

#### **Optional Element: 20 (Choose one)**

- Use of JavaScript and/or jQuery plug-in(s) in site (form validation, menus, font-size option, etc.)
- Database Connectivity:
  - Use of proper syntax in PHP scripts
  - Read and write functionality to the database
  - Proper error handling and reporting
  - Relevant data and correct use of data-types

### **7. EQUIPMENT, TOOLS, MATERIALS TO BE PROVIDED BY COMMITTEE**

- Paper for writing
- Windows based computers – specs not available at this time
- Web server running PHP and MySQL versions not available at this time
- jQuery library – Along with access to the code for various plug-ins
- Current and host site supported version of Adobe web site design and production software
- HTML Editors (that may be included):
  - Notepad ++
  - Sublime Text
- Web Browsers – Internet Explorer, Firefox, Chrome
- 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 or hardware requests should make them immediately for them to be taken into consideration.

### **8. EQUIPMENT, TOOLS, MATERIALS TO BE SUPPLIED BY COMPETITOR**

- Pencils or pen for writing
- 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”

### **9. 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

## **10. NATIONAL COMPETITION ELIGIBILITY**

- A mark of **70% or higher** must be scored by the gold medalist in each contest in order for them to attend the National Skills Competition

## **11. ADDITIONAL INFORMATION**

- Some useful links are: <http://ca.php.net/tut.php>  
<http://www.w3schools.com/php/default.asp>  
<http://www.w3schools.com/sql/default.asp>
- No tie scores are allowed (judges will be responsible for tie breaker procedure)

## **THE IMPORTANCE OF ESSENTIAL SKILLS FOR CAREERS IN THE SKILLED TRADES**

Essential skills are used in nearly every job and at different levels of complexity. They provide the foundation for learning all other skills and enable people to evolve with their jobs and adapt to workplace change. Good Essential Skills means you will understand and remember concepts introduced in technical training. The level of Essential Skills required for most trades is as high as or higher than it is for many office jobs.

The following 9 skills have been identified and validated as key essential skills for the workplace: Numeracy, Oral Communication, Working with Others, Continuous Learning, Reading Text, Writing, Thinking, Document Use, and Digital.

Top Essential Skills for Website Development: Oral Communication, Thinking: Decision Making, Critical, Problem Solving, and Digital

## **12. TECHNICAL COMMITTEE**

### **Malena Gonzalez (Co-Chair)**

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### **Vacant (High School)**