

# 2018 PROVINCIAL SKILLS CANADA COMPETITION



## Contest Description

Edmonton Expo Centre, Edmonton

May 31<sup>st</sup> & June 1<sup>st</sup>, 2018

<b>EVENT:</b> Website Development	<b>LEVEL:</b> Secondary										
<b>WORLDSKILLS TRADE #:</b> 17	<b>LOCATION:</b> Hall B, Edmonton Expo Centre, Edmonton										
<b>DURATION:</b> 12.25 Hours	<b>REGIONALIZED:</b> No										
<b>COMPETITION SCHEDULE:</b>											
<b>May 31:</b>	<b>June 1:</b>										
<table><tr><td>ORIENTATION</td><td>7:45AM-8:00AM</td></tr><tr><td>COMPETITION</td><td>8:00AM-12:00PM</td></tr><tr><td>LUNCH</td><td>12:00PM-1:00PM</td></tr><tr><td>COMPETITION</td><td>1:00PM-4:30PM</td></tr></table>	ORIENTATION	7:45AM-8:00AM	COMPETITION	8:00AM-12:00PM	LUNCH	12:00PM-1:00PM	COMPETITION	1:00PM-4:30PM	<table><tr><td>COMPETITION</td><td>7:30AM-12:00PM</td></tr></table>	COMPETITION	7:30AM-12:00PM
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**IMPORTANT:** Competitors are required to bring their own device and software for the 2018 competition. Each competitor can choose their own device and software so their workflow and process is to what they are familiar with.

If competitors are bringing a computer or laptop from their school (instead of their personal computer), please ensure that the computer is unlocked so documents and possibly software can be saved/installed to the hard drive and technology support can be provided onsite. This may require access to CMOS settings.

**Mandatory competitor orientation for all event areas that are Bring Your Own Device will be held on Wednesday May 30, 2018 at 7:30pm (following opening ceremonies/registration).**

Please contact Gord King with any questions or concerns: [gordk@skillsalberta.com](mailto:gordk@skillsalberta.com)

## CONTEST INTRODUCTION

### Purpose of the Challenge:

To provide an opportunity for students to demonstrate their ability to design a dynamic and aesthetically pleasing website.

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

- Ability to develop web pages / a web site on a fictional scenario that is outlined below.
- Some features that competitors may choose to include on their web pages are: menus, graphics, forms, tables, styles, meta tags, and links.
- The majority of the site theme needs to be built using HTML5. Presentation formatting should be done with CSS.
- A proper planning process must be presented on paper (storyboard / flowchart).
- Websites should be functional and visually pleasing in various screen resolutions.
- Site should be easy to maintain and user friendly.
- Cross browser compatibility between latest versions of Firefox, Chrome, and Edge.
- 2 machines running Windows 10 will be available to test your website once posted to the server in case your device does not have or does not support the browsers mentioned above.
- All final project media must be uploaded to the server via an FTP client or Web Deploy for testing and grading. (FTP instructions will be given) Please ensure your BYOD has the appropriate client, i.e. FileZilla, for your upload method.

## **Optional elements worth 20% of total mark:**

- Use of a Framework / Libraries (i.e. WordPress, Angular, Bootstrap, jQuery)
- Use of a database
- Server-side script
- JavaScript / Client-side script

Look to the appendices at the end of this document for links of examples for some of these items.

## **PROJECT DESCRIPTION**

The students will be responsible for creating a website for an fictional Investment company.

The student is to take the perspective of developing a site for a customer. These are the pages the customer requires:

- Home / Splash page
- Blog section with hot tips on investing
- Product Detail Pages
- Chart / Graph section showing how investments are going up (or down)
- Staff
- Contact Information, Request for Information

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All of the information on the site must be tied together using a menu and web design. A number of images and text content from the customer will be provided as a starting baseline.

## EQUIPMENT & MATERIALS

### Equipment and Materials Competitors Must Supply:

- Appropriate materials for planning (i.e.: paper, pen, & ruler).
- Your own computer or laptop with wired network capability. Internet Access is granted 2x / day, there will be no wireless available.
- Your own monitors if necessary, 2 maximum.

**IMPORTANT:** Competitors are required to bring their own device and software for the 2018 competition. Each competitor can choose their own device and software so their workflow and process is to what they are familiar with.

If competitors are bringing a computer or laptop from their school (instead of their personal computer), please ensure that the computer is unlocked so documents and possibly software can be saved/installed to the hard drive and technology support can be provided onsite. This may require access to CMOS settings.

### Equipment and Materials Supplied by the Committee:

#### Hardware:

- Windows based server running Windows 2012 which the websites will be posted to using FTP
- 2 windows based machines for testing of competitors websites by competitors.

#### The server will be running software to support:

- PHP 7.1
- ASP.NET 4.5
- MySQL 5.7
- MSSQL 2016 Express Edition
- phpMyAdmin
- FTP server
- IIS 10

- \* Registered Global Variables will be off for the PHP server.
- \* We do not guarantee software versions.

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## JUDGING CRITERIA

• Storyboard/Visual/Design	35%
• Technical elements	35%
• Optional Elements (Choose one or more)	20%
• Presentation	10%

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<b>Overall Total</b>	<b>100%</b>
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## RELATED CAREER AND TECHNOLOGY STUDIES COURSES

Descriptions of all modules are located at the following website:

<https://education.alberta.ca/career-and-technology-studies/programs-of-study/>

### Career and Technology Studies

Business, Administration, Finance & Information Technology (BIT)

Media, Design & Communication Arts (MDC)

Career Transitions (CTR)

## SAFETY

The health, safety and welfare of all individuals involved with Skills Canada Alberta are of vital importance. Safety is a condition of participation with Skills Canada Alberta and shall not be sacrificed for the sake of expediency. At the discretion of the judges and technical committees, any competitor can be denied the right to participate should they not have the required proper safety equipment and/or act in an unsafe manner that can cause harm to themselves or others.

### Clothing Requirement

Appropriate work clothing must be worn to compete. All clothing must be neat and clean and free of rips and tears. Casual wear such as shorts and open toed shoes/sandals will not be permitted. No loose-fitting clothes or jewelry.

## ADDITIONAL INFORMATION

- No additional materials, hardware or software will be allowed for the contest.
- Internet access for all competitors will be provided in 15 minute intervals for a maximum of 2x per day. No other internet access will be permitted.
- CDROM/DVD/USB will be off limits during the competition
- No Cellular Telephone devices will be allowed.
- Reference Books may be brought into the competition under the following conditions:

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- Books must be brought in at the start of the competition on day 1.
- Books will be placed on a communal table and may not be brought to an individual workstation.
- Books will be available to all competitors.
- Books must be left until the end of the competition just before judging.
- No customized notes will be allowed.
- Books must be brought to committee staff for inspection.
- Only commercially published books will be allowed.
- No more than one book per competitor.
- Book ownership must be noted.

## **Skills Canada Alberta Regional and Provincial Rules and Regulations**

[2017-18 Regional and Provincial Rules and Regulations](#)

### **Competitor Registration**

Registration for Provincial Skills Canada Competition (PSCC) will open online at <http://skillsalberta.com> on February 14, 2018 @ 8:30 AM. Please refer to the following links for additional registration information: [Tips for High School Teachers](#) and [Road to Provincials](#)

**High School Competitor Information** is [available here](#).

### **Lunch**

Lunch for accredited competitors will be provided by Skills Canada Alberta. Teacher accreditation can be purchased online at: <http://skillsalberta.com>.

**Parking & Venue Maps:** <http://edmontonexpocentre.com/attend/parking/>

### **Opening Ceremonies / Competitor Registration**

Opening Ceremonies will take place on Wednesday May 30, 2018 at 6:00 pm in Hall D of the Edmonton EXPO Centre. Admission is free and everyone is welcome to attend. It is important to note that competitor registration will open immediately following the opening ceremony.

### **Orientation**

Mandatory competitor orientation for all event areas that are Bring Your Own Device will be held on Wednesday May 30, 2018 at 7:30pm (following opening ceremonies/registration).



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## Awards Ceremony

The Awards Ceremony will take place on Friday June 1, 2018 at 6:30 pm in Hall D of the Edmonton EXPO Centre. Admission is free and everyone is welcome to attend. The Awards Ceremony will be shown live at <http://skillsalberta.com/>

## Team Alberta Information

Team Alberta will be selected at the Provincial Skills Canada Competition (PSCC) happening on May 31- June 1, 2018. Gold medalists will then be eligible to participate at the Skills Canada National Competition (SCNC) on June 3 – June 6, 2018 in Edmonton, AB. It is recommended that competitors review the SCNC contest description to be familiar with the national contest description and project at <http://www.skillsCanada.com/>.

During the PSCC Awards Ceremony on Friday June 1, 2018 gold medalists will be given their Team Alberta information package and will confirm their participation in the SCNC. Students must be present at the Awards Ceremony to claim their position on Team Alberta. If the Gold medalist is not able to attend SCNC, the next top ranking individuals will be asked to participate. If a student is not able to attend the Awards Ceremony a letter confirming the student's interest in Team Alberta participation must be emailed to [gordk@skillsalberta.com](mailto:gordk@skillsalberta.com) prior to the start of competition on May 31, 2018.

**Please prepare your students in advance to accept a position on Team Alberta and outline how your school will support their participation. It is expected that all members of Team Alberta will stay with the team at accommodations secured by Skills Canada Alberta from Sunday June 3 until Wednesday June 6, 2018. Furthermore, it is very important that all fieldtrip/travel information for potential Team AB members is organized and completed prior to the selection of Team AB.**

## COMMITTEE MEMBERS

Brad Frere (Chair) <a href="mailto:bradfrere@lostdogdev.com">bradfrere@lostdogdev.com</a>	Lost Dog Developments Inc.
Matt Waggoner	DevFacto
Richard Fullbrook	
Travis Ralston	NIRIX

**\*\*Please see additional info below\*\***

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## APPENDIX Optional Elements

### Frameworks / Libraries

#### WordPress

<http://www.wordpress.com>  
<https://en-ca.wordpress.org/download/>

#### AngularJS

<https://angularjs.org/>

#### Bootstrap

<http://getbootstrap.com/>

#### ASP.NET

<https://www.asp.net/>

#### jQuery

<https://www.w3schools.com/jquery/default.asp>

#### Others

<https://www.awwwards.com/what-are-frameworks-22-best-responsive-css-frameworks-for-web-design.html>

### Databases

#### SQL Server (Express)

<https://www.microsoft.com/en-us/sql-server/sql-server-editions-express>

#### MySQL

<https://www.mysql.com/>

### Server-side script

#### PHP

<https://www.w3schools.com/php/default.asp>

#### SQL

<https://www.w3schools.com/sql/default.asp>

#### C# / VB.net

<https://msdn.microsoft.com/en-us/library/dd492171.aspx>

### JavaScript / Client-side script

<https://www.w3schools.com/js/default.asp>