



CONTEST DESCRIPTION

Web design and development

SECONDARY

Table of Contents

1	ESSENTIAL SKILLS FOR CAREERS IN THE SKILLED TRADES AND TECHNOLOGY	3
2	CONTEST INTRODUCTION.....	3
3	CONTEST DESCRIPTION.....	4
4	EQUIPMENT, MATERIAL, CLOTHING.....	4
5	SAFETY REQUIREMENTS	5
6	ASSESSMENT.....	6
7	ADDITIONAL INFORMATION.....	6
8	NATIONAL TECHNICAL COMMITTEE MEMBERS	7

1 ESSENTIAL SKILLS FOR CAREERS IN THE SKILLED TRADES AND TECHNOLOGY

SCC is currently working with Employment and Social Development Canada (ESDC) in order to bring awareness to the importance of Essential Skills that are absolutely crucial for success in the workforce. Part of this ongoing initiative requires the integration and identification of Essential Skills in contest descriptions, projects, and project documents. The next phase and very important aspect of our Essential Skills (ES) initiative is to provide an ES report card to each competitor at the Skills Canada National Competition. The purpose of the ES report card is to inform the competitor about their current level of essential skills based on their competition scores. With this knowledge, the competitor will be made aware which essential skill may require improvement. Full implementation is expected in the next Skills Canada National Competition.

The following 9 skills have been identified and validated as key essential skills for the workplace in the legend below:

¹Numeracy, ²Oral Communication, ³Working with Others, ⁴Continuous Learning, ⁵Reading Text, ⁶Writing, ⁷Thinking, ⁸Document Use, ⁹Digital

These essential skills have been identified in section 2.4 and 3.2 of your Contest Description and if applicable, in your Project and supporting documents.

2 CONTEST INTRODUCTION

2.1 Description of the associated work role(s) or occupation(s).

<http://skillscompetencescanada.com/en/skills/information-technology/website-development/>

2.2 Purpose of the Challenge.

To provide competitors with the opportunity to demonstrate through practical application their skills in client- and server-side Web design and development.

2.3 Duration of contest.

12 hours

2.4 Skills and Knowledge to be tested.

- This modular competition will test the competitor's knowledge and skills dealing with:
 - Graphics for the Web⁹
 - Web design principles⁹
 - HTML⁹
 - CSS⁹
 - JavaScript⁹
 - jQuery⁷
 - XAMPP⁷ (Apache HTTP Server, MariaDB, and PHP, phpMyAdmin)⁹

Essential Skills – ⁷Thinking (Problem Solving), ⁹Digital

3 CONTEST DESCRIPTION

3.1 List of documents produced and timeline for when competitors have access to the documents.

DOCUMENT	DATE OF DISTRIBUTION VIA WEBSITE
Test Project	November 2020

3.2 Tasks that may be performed during the competition:

- Use standard (X)HTML and CSS to create accessible and usable Web pages.⁹
- Create responsive Web page designs that utilize are viewable in modern Web browsers (Mozilla Firefox, Google Chrome, Microsoft Edge, Apple Safari) and on numerous devices (desktop computer, tablet computer, smartphone).⁹
- Create, manipulate, and optimize raster and vector graphics.⁹
- Write JavaScript code and utilize libraries in order to enhance the overall user experience of Web solutions^{7,9}
- Write server-side code using PHP given a set of functional requirements within the XAMP environment.^{5,7}
- Use MariaDB (a relational databases) when writing programs that operate on persistent data.^{7,9}
- Refactor and debug client- and server-side code.⁷

Essential Skills – ⁵Reading Text, ⁷Thinking (Problem Solving, Critical Thinking), ⁹Digital

4 EQUIPMENT, MATERIAL, CLOTHING

4.1 Equipment and material provided by Skills/Compétences Canada

- Work desk and ergonomic chair
- Help documentation will be provided on the competitor's computers. The detail will be included on the pre-release project.

4.2 Equipment and material provided by the competitor

- Windows 10 desktop computer with display running:
 - XAMPP
 - Web Browser
 - Images Editors
 - GIMP
 - Adobe Photoshop
 - Editors
 - Adobe Dreamweaver
 - Sublime
 - NotePad++
 - Visual Studio Code
 - Atom
 - Brackets
 - Microsoft Office
 - 7-zip
- Headphones, MP3 player or Phone (phone must be in airplane mode with Wi-Fi turned off)
- May bring a mouse and keyboard

COMPETITORS WILL BE REQUIRED TO USE THE MATERIAL AND EQUIPMENT PROVIDED BY SCC. ALL OTHER MATERIAL AND EQUIPMENT WILL BE REMOVED FROM THE SKILL AREA.

4.3 Required clothing provided by the competitor

- Competitors must be dressed in a business casual attire

5 SAFETY REQUIREMENTS

5.1 Safety workshop

Upon arrival at the skill area, competitors will participate in a safety workshop and they will be expected to work and maintain a safe working area during the competition. Any competitor breaking any health, safety and environmental rules, may be required to undertake a second safety workshop, this will not affect the competitor's competition time.

5.2 Personal protective equipment (PPE) provided by Skills/Compétences Canada

- No PPE required

5.3 Personal protective equipment (PPE) provided by the competitor

- No PPE required

6 ASSESSMENT

6.1 Point breakdown

POINT BREAKDOWN	/100
Module A: Design	50
Module B: Development	50

7 ADDITIONAL INFORMATION

7.1 Interpreter

If a competitor requires the help of an interpreter once onsite during the competition, the Skills/Compétences Canada Provincial/Territorial offices must advise Skills/Compétences Canada National Secretariat a minimum of 1 month prior to the competition or this service might not be guaranteed.

7.2 Test Project change at the Competition

Where the Test Project has been circulated to Competitors in advance, NTC shall change a maximum of 30% of the work content. Please refer to the Competition Rules.

7.3 Ties

- Tiebreaker #1: The competitor with the highest score in the Measurement criteria will be declared the winner.
- Tiebreaker #2: The competitor with the highest score in Module B will be declared the winner.
- Tiebreaker #3: The competitor with the highest score in the measurement aspects of Module B be will be declared the winner.

7.4 Competition rules

Refer to the [competition rules](#) of the Skills Canada National Competition which can be found on our website.

8 NATIONAL TECHNICAL COMMITTEE MEMBERS

Member Organization	Name
Ontario	Dalibor Dvorski
Saskatchewan - Chair	Jeff Boulton
Manitoba	Sean Taylor
Newfoundland and Labrador – Co-Chair	David Cantwell
Alberta	Matt Waggoner
British Columbia	Mohd Abdullah

Contact the Skills/Compétences Canada national secretariat for any questions or concerns: Nathalie Maisonneuve (nathaliem@skillscanada.com)