



CONTEST DESCRIPTION / DESCRIPTION DE CONCOURS

WEB DESIGN AND DEVELOPMENT

CONCEPTION ET CREATION DE SITES WEB

SECONDARY /
NIVEAU SECONDAIRE

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1. THE 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 2017 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 with in section 2.4 and/or 3.2 of your Contest Description. The top three Essential Skills for your area of competition have been identified on your Project and all other supporting project documents.

2. CONTEST INTRODUCTION

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

<http://skillscompetencescanada.com/en/careers/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.

2.2 Duration of contest.

12 hours

2.3 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
 - Colours, typography, structure, etc.
- HTML 5
- CSS 1, 2 and 3
- PHP 5
- JavaScript / Ajax

Competitor workstations will have XAMPP installed for the creation of their solution, along with a variety of software. Judges will evaluate the final project from competitors workstations.

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
Judging criteria	January, 2017
Test Project	January, 2017

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 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.
 - Write JavaScript code and utilize libraries in order to enhance the overall user experience of Web solutions
 - Write JavaScript and PHP programs given a set of functional requirements.
 - Create and use relational databases with MySQL, and write programs that operate on persistent data.^{7,9}
 - Apply known object-oriented design patterns as part of a complete Web solution.^{5,7}
 - 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

- Computer workstation, including keyboard, mouse, and monitor
- Work desk and ergonomic chair

4.2 Equipment and material provided by the competitor

- May bring: personal keyboard, graphic tablet, mouse (no internal memory)
- MP3 player (no internet enabled devices) and headphones
- Pens/Pencil Paper

4.3 Required clothing (Provided by competitor)

- Business casual

5. SAFETY REQUIREMENTS

5.1 List of required personal protective equipment (PPE) provided by competitors

- No PPE required

6. ASSESSMENT

6.1 Point breakdown

POINT BREAKDOWN	/100
User interface design	15
(X)HTML/CSS template	15
Client- and server-side programming	35
Solution quality and security	20
Integration of complete solution	15

7. ADDITIONAL INFORMATION

7.1 Consecutive translation

If consecutive translation is required on site, 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 Software requirements

If French software is required 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 software might not be guaranteed.

7.3 Computer keyboard requirements

English Keyboards will be provided, if a French keyboard is required 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 keyboard might not be guaranteed.

7.4 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.

7.5 Tie (No ties are allowed)

In the event of a tie, the competitor with the highest score in the Objective criteria will be declared the winner. If a second tie occurs, the competitor with the highest score in the Module B and C (objective marks) combined will be declared the winner. You can find these criteria in the Judging Criteria document.

7.6 Competition rules

Please refer to the competition rules of the Skills Canada National Competition.

8. NATIONAL TECHNICAL COMMITTEE MEMBERS

Member Organization	Name	Email address
Ontario - Chair	Dalibor Dvorski	ddvorski@conestogac.on.ca
Saskatchewan	Jeff Boulton	
Yukon	Roger Gillies	
Manitoba	Sean Taylor	
Newfoundland and Labrador	David Cantwell	