

CONTEST DESCRIPTION
DESCRIPTION DE CONCOURS

WEB SITE DEVELOPMENT CONCEPTION DE SITES WEB

SECONDARY
NIVEAU SECONDAIRE

CONTINUOUS LEARNING



FORMATION CONTINUE

DIGITAL



COMPÉTENCES NUMÉRIQUES

DOCUMENT USE



UTILISATION DE DOCUMENTS

NUMERACY



CALCUL

ORAL COMMUNICATION



COMMUNICATION ORALE

READING TEXT



LECTURE

WORKING WITH OTHERS



TRAVAIL D'ÉQUIPE

WRITING



RÉDACTION

THINKING



CAPACITÉ DE RAISONNEMENT

1. The Importance of 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. This will be piloted in a number of areas for 2016 with full implementation in the 2017 Skills Canada National Competition.

This is part of an ongoing initiative that requires the integration and identification of Essential Skills in contest descriptions, projects, and project documents. 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 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 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 2.3 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 Purpose of the Challenge.

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

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, 2016
Test Project	January, 2016

3.2 Tasks that may be performed during the contest

Client side coding – includes the following functions:

- Design a web site using (X)HTML and CSS⁹
- Utilize JavaScript libraries to enhance site interactivity
- Seeking to optimize web pages through three different browsers: Mozilla Firefox, Microsoft Internet Explorer, and Google Chrome.⁷
- Complies with W3C standards. (<http://www.w3.org>) and is accessible
- Use Ajax standards

Images

- Images – Create, manipulate, and optimize for the web
- Use appropriate image formats (e.g. JPG, PNG, GIF, SVG)

DOM Manipulation

- Use JavaScript to append, modify or remove DOM elements⁷

Interactivity⁷

- Use JavaScript to add interactive elements to the website.

Server side programming

- Create and/or modify a server side application coded in PHP, using MySQL (e.g. content management system, image gallery, membership application, shopping cart, product catalogue)
- Utilize object-orientated programming and design patterns such as model-view-controller⁹

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

4. EQUIPMENT, MATERIAL, CLOTHING

4.1 Equipment and material provided by Skills/Compétences Canada

- Computer workstation [monitor(s), English keyboard, mouse, computer]
- 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
Graphic Design	15
HTML / CSS template	15
Functionality	35
Security and coding	20
Integration	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.

Competitors may also bring their own keyboard, mouse and/or graphics tablet with the required drivers. The NTC will not guarantee that the devices supplied by the competitor will work with the host workstations.

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 Organisation	Name	Email address
Ontario - Chair	Dalibor Dvorski	ddvorski@conestogac.on.ca
New Brunswick	Joseph Marriott	
Saskatchewan	Jeff Boulton	
Yukon	Roger Gillies	
Québec	Eddy Martin	
Newfoundland and Labrador	Albert Norman	
Manitoba	Sean Taylor	