

CONTEST DESCRIPTION
DESCRIPTION DE CONCOURS

IT OFFICE SOFTWARE APPLICATIONS
TI-APPLICATION DE LOGICIELS BUREAUTIQUE
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 rapid pace of globalization over the past decade has been largely driven by developments in Information Communication Technology (ICT). IT specialists are increasingly in great demand in several areas, one of which is in providing solutions for business.

These professionals are not merely users of Microsoft Office; they are power users who have an intricate knowledge of each of the applications in the suite. Their skills may be used in a plethora of ways across a multitude of industries, cultures and languages.

Microsoft Office is by far the most widely-used suite of office applications throughout the world, therefore making Software Solutions professionals highly-employable members of the IT community. There are thousands of businesses that are undoubtedly in need of better training in the use of these office applications, and will often benefit greatly from having customised solutions developed for them that suit their individual needs.

What do IT Software Solutions professionals do?

- Develop solutions to businesses' problems
- Use Microsoft Office as a framework to build software solutions
- Analyse business requirements in order to create well-fitting solutions
- Use problem-solving skills and in-depth technical knowledge to build those solutions
- Use communication skills to document their creations in an easy-to-understand way
- Use communication and sales skills to present their solutions to clients

Where do IT Software Solutions professionals work?

IT Software Solutions professionals are employed throughout the following:

- Large enterprises
- Medium-sized businesses
- Small businesses
- As freelancers

They can operate in a wide variety of roles including:

- In a support role
- In a training role
- In a development role
 - providing customization and automation
 - developing totally customized software solutions to a business' requirements
- In a business analyst role providing the data required to enable decision making
- In the daily activities of a company
 - simplifying and improving routine office and business activities

2.2 Duration of contest.

12 hours

Each day will consist of two sessions utilizing Microsoft Office 2013. Each morning session will be 3.5 hours and each afternoon session will be 2.5 hours. In each session, competitors may be using any combination of the applications-Word, PowerPoint, Excel, Access **only**.

2.3 Skills and Knowledge to be tested.

Using the software available, competitors will be required to solve a series of problems.⁷ They will work independently while making judgements over the two days of competition according to the specifications given in the project material.⁸ The ability to access, store and use files across a network⁹ is assumed.

Essential Skills – ⁷Thinking (Problem Solving, Critical) ⁸Document Use ⁹Digital

3. CONTEST DESCRIPTION

The Test Project will be in the form of a case study that will represent typical functions that might be asked of an IT professional who is highly competent in the area of Microsoft Office. The scenario will be presented as a project with clearly defined deliverables. These deliverables will be grouped to enable a modular approach whereby discrete tasks are completed within a session. The project will be divided into 4 sessions with 2 sessions each day. The competitors will select the appropriate software for the tasks.

The scenario for this competition will include an extensive simulation of workplace activities related to the Company that is operating in the Province. This could include reservations, administrative activities, transportation and services on each site. Competitors will be required to customize and automate elements within the applications.

Competitors will submit their work at the end of each session. Work files will be provided when needed. Rush jobs may be included during competition. Rush jobs refer to surprise tasks that will need to be completed within a limited time frame in addition to original project instructions.

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

DOCUMENT	DATE OF DISTRIBUTION VIA WEBSITE
No other competition documents will be released prior to the competition	

3.2 Tasks that may be performed during the contest.

The criteria listed in each section below are intended as guidelines only. All criteria may or may not be included.

Database

Competitors will be expected to use the full functionality of Microsoft Access. Database design skills will be required

Modify a database

Competitors must know and understand:

- The importance of using industry-accepted conventions for the naming of database objects
- The need for standardization in the naming of fields
- How to ensure data integrity
- How to ensure security
- How to avoid data redundancy

Competitors must be able to:

- Set up tables with correct fields, keys and data types
- Apply table and field properties (validation rules, input masks, lookups etc)
- Import data from a variety of sources and in a variety of formats
- Designate primary and foreign keys
- Set up correct relationships between tables
- Provide for database security, protection, and permissions

Design and use forms

Competitors must know and understand:

- How to create a form to a specified design and layout

Competitors must be able to:

- Create forms and sub forms for a range of uses
- Control data entry through forms
- Add and set up appropriate controls in forms
- Control record navigation in a form
- Set properties

Query a database

Competitors must know and understand:

- How to design and execute queries to generate results as specified

Competitors must be able to:

- Filter & search records
- Construct and use select, parameter and action queries
- Add a calculated field to a query
- Perform calculations on a record grouping

Design and use reports

Competitors must know and understand:

- How to design and produce reports to generate results as specified

Competitors must be able to:

- Produce and modify reports (simple, grouped, summary and sub reports) following a stated layout and format

Create and use pivot tables and charts

- Set report properties
- Use calculated fields in reports
- Format a report for printing

Share data across applications

Competitors must know and understand:

- How to extract and use data from other applications that may be in differing file formats
- How to output data from Access to other applications

Competitors must be able to:

- Import and export data according to specifications
- Integrate data with external sources

Customize and automate processes

Competitors must know and understand:

- How to create and design the interface to suit client requirements as specified
- How to provide the user with options for simple execution of complex processes

Competitors must be able to:

- Automate loading and display of objects
- Create and use macros to automate processes
- Customize the Access environment

Spreadsheets

Competitors will be expected to use the full functionality of Microsoft Excel; however competitors will not be expected to have in-depth knowledge or expertise in any particular field (eg. financial, engineering, statistical, mathematical, etc.).

Construct a spreadsheet

Competitors must know and understand:

- The power of a well-designed and well-constructed spreadsheet to improve business productivity and aid decision making with its powerful data analysis and reporting functions

Competitors should be able to:

- Use formulas as required
- Create, modify and format spreadsheets using the full range of Excel's formatting features including conditional formatting
- Use a variety of built-in functions (statistical, mathematical, text, logical, financial, date and time).

Use Data and Table functions

Competitors must know and understand:

- How to manage and analyze data

Share data across applications

Competitors must know and understand:

- How to extract and use data from other applications that may be in differing file formats
- How to output data from Excel to other applications

Competitors must be able to:

- Import and export data according to specifications
- Integrate data with external sources

Printing Spreadsheets

Competitors must know and understand:

- How to set up worksheets and workbooks for printing

Competitors must be able to:

- Set printing options to output a chart, worksheet, workbook according to specifications

Charts and Graphs

Competitors must know and understand:

- How to present spreadsheet data in various graphical formats

Competitors must be able to:

- Create, modify and format charts according to specifications

Customize and automate processes

Competitors must know and understand:

- How to create and design the interface to suit client requirements as specified
- How to provide the user with options for simple execution of complex processes
- How to customize layouts

Competitors must be able to:

- Create and use macros to automate processes
- Hide/unhide/freeze rows and columns
- Set up templates
- Customize an Excel worksheet
- Enhance worksheets using themes
- Work with comments

Use graphical objects

Competitors must know and understand:

- How to enhance visual appeal using graphic objects

Competitors must be able to:

- Insert, modify and format graphic objects
- Change the order of layered graphic objects
- Group graphic objects

Use multiple workbooks

Competitors must know and understand:

- How to work with multiple workbooks

Competitors must be able to:

- Link cells
- Edit links

Word Processing

Competitors will be expected to use the full functionality of Microsoft Word.

Create a document

Competitors must know and understand:

- How to design, create and modify a range of business documents

Competitors must be able to:

- Apply the full range of text, paragraph, page and document formatting
- Create, edit and format tables
- Create and modify charts
- Insert, draw, modify and manipulate graphical objects

Mail Merge

Competitors must know and understand:

- How to generate mass-mailing documents

Competitors must be able to:

- Set up a main document
- Connect the document to a data source
- Refine the list of recipients by sorting and filtering data

Referencing

Competitors must know and understand:

- How to set up and apply the referencing features of Microsoft Word

Competitors must be able to:

- Set up and use table of contents and bibliography
- Set up and use footnotes and endnotes
- Create, manage, revise, and distribute long documents and forms.
- Prepare documents for printing or for publishing electronically

Share data across applications

Competitors must know and understand:

- How to extract and use data from other applications that may be in differing file formats
- How to output data from Word to other applications

Competitors must be able to:

- Import and export data according to specifications
- Integrate data with external sources

Customize and automate processes

Competitors must know and understand:

- How to create a custom layout using a template
- How to create a template
- How to create and use forms

Competitors must be able to:

- Create and use macros to automate processes
- Provide user interactivity by means of forms and fields
- Protect forms
- Create, edit and apply themes to documents
- Create, modify and use templates

Presentations

Competitors will be expected to use Microsoft PowerPoint. Drawing and modifying of graphical objects will be limited to the capabilities of PowerPoint; no drawing packages will be used in the Test Project

Create a presentation

Competitors must know and understand:

- How to design, create and modify a presentation according to given specifications

Competitors must be able to:

- Create and modify slides using a variety of layouts and formats
- Use text effects
- Include tables and charts in a presentation
- Import data (text, spreadsheet, charts, etc)
- Hide/unhide slides

Add special effects to presentations

Competitors must know and understand:

- How to add special effects to presentations according to given specifications

Competitors must be able to:

- Add multimedia elements
- Customize slide component animation
- Insert media files (movie, sound)
- Add graphical objects to a presentation

Add graphical objects to a presentation

Competitors must know and understand:

- How to create, format and apply graphical objects to a presentation according to given specifications

Competitors must be able to:

- Insert and manipulate Illustrations, for example:
 - Shapes
 - WordArt
 - SmartArt
 - Diagrams
 - Graphical Objects
- Modify and work with objects
- Change object orientation
- Format objects
- Group and ungroup objects
- Arrange objects

Customize and automate processes

Competitors must know and understand:

- How to Customize a Design Template
- How to use timings, animations and transitions

Competitors must be able to:

- Display objects using timings, animations and transitions
- Create and use macros
- Create, modify and use templates
- Set up a slide master
- Customize slide layouts
- Create custom themes
- Customize bullets
- Add common slide information
- Modify the notes master
- Modify the handout master

Prepare a presentation for delivery

Competitors must know and understand:

- The importance of professionalism in preparing a slide show for delivery according to given specifications

Competitors must be able to:

- Arrange slides
- Add transitions
- Apply animation effects
- Execute other programs during a slideshow
- Create speaker notes
- Print a presentation
- Package a presentation
- Set up a custom show
- Annotate a presentation
- Create a presenter-independent slide show
- Set up and apply automatic timings to a slideshow

4. EQUIPMENT, MATERIAL, CLOTHING

4.1 Equipment and material provided by Skills/Compétences Canada

- Computer workstation
 - English keyboard will be supplied and French keyboard upon request (see additional information section 6).
- Software:
 - No internet access available
 - Windows 7 (French and English version)
 - Microsoft Office 2013 (French and English version)
 - Word
 - Powerpoint
 - Excel
 - Access

4.2 Equipment and material provided by the competitor

- Competitors may bring their own keyboard. The keyboard will be subject to approval by the National Technical Committee.
- The use of a headset (connected to electronic music device e.g. iPod) is permitted.
- No communication devices permitted.
- Earplugs are permitted.

4.3 Required clothing (Provided by competitor)

- Competitors must be dressed as appropriate for an office environment

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
Word	25
Excel	25
PowerPoint	25
Access	25

7. ADDITIONAL INFORMATION

7.1 Consecutive translation

If a French language translator 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 Access criteria will be declared the winner.

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
Alberta	Roger Moore	
Ontario	Liz Stacey	
Newfoundland and Labrador	Cathy Goodwin	
Prince Eduard Island - Chair	Gaylene Nicholson	gsnicholson@hollandcollege.com
New Brunswick	Penny Dorken	
Manitoba	Mark Lebar	