

CONTEST DESCRIPTION
DESCRIPTION DE CONCOURS

IT- NETWORK SYSTEMS ADMINISTRATION
TI- GESTION DE RÉSEAUX
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

To evaluate each competitor's skills and to recognize excellence and professionalism in the field of IT network systems administration.

2.2 Duration of contest 12 hours

2.3 Skills and Knowledge to be tested

The competition evaluates a competitor's knowledge of computer and network hardware.

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
No other competition document will be released prior to the competition	

3.2 Tasks that may be performed during the contest

Essential Skills

- Create, interpret, and modify network diagrams.⁸
- Create, interpret, and modify network, and system documentation, and processes
- Use Windows caption technology such as Windows Steps Recorder and Snipping tools

Physical system setup⁹

- Identify, install, connect and test hardware components⁷
- Setup and network workstations
- Create and test networking cable
Basic system configuration as required

Desktop system configuration

- Install and configure virtual machines
- Install Operating Systems
- Install, setup, and configure corporate productivity software products
- Install and verify correct operation of peripheral devices
- Use disk, system, and file management tools
- Configure operating system functionality including tasks such as: setting Windows themes and control panel settings Configure Windows networking in a workgroup environment including shares, permissions, printers

Networking

- Operate basic network diagnostic software utilities such as ping, ipconfig, etc
- Calculate and apply to a network, an IPv4 and/or IPv6 addressing scheme using subnetting and/or Variable Length Subnet Mask (VLSM).
- Configure a home wireless routing solution

Troubleshooting⁷

- Analyze and resolve common Desktop problems
- Analyze and resolve common home Network problems
- Use available documentation and logs to identify and resolve problems
- Fix and document resolution using customer complaint descriptions
- Troubleshoot software installation problems⁷
- Problem examples might include things like; inability to login, cannot access website, or machine not starting properly etc.

*Essential Skills – ⁷Thinking (Critical, Problem Solving, Job Task Planning and Organizing),
⁸Document Use ⁹Digital*

4. EQUIPMENT, MATERIAL, CLOTHING

4.1 Equipment and material provided by Skills/Compétences Canada

- Suitable computer hardware, both physical and virtual could be provided
- SOHO Integrated Router device
- Suitable computer software
- VMWare virtualization software
- Windows 7, 8.1

Note: Any network services provided are for candidate use, not configuration or management.

Note: Competitors should not expect access to the internet during the competition

4.2 Equipment and material provided by the competitor

- Pen and Pencil

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
Physical system setup	25
Desktop system configuration	25
Networking	25
Troubleshooting	25

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 Troubleshooting criteria will be declared the winner. If a second tie occurs, the competitor with the highest score in the Networking 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 Organisation	Name	Email address
Alberta	Doug Warden	
Manitoba	Andrew Strahl	
Ontario	Nick Gommans	ngommans@infusion.com
Québec	Jean-Francois Savard	
Newfoundland & Labrador	Michael Hopkins	
British Columbia	Nolan Fretz	
Prince Edward Island	Rob Blanchard	