

Contest Description

COMPETITION DATE: Saturday, April 24, 2021	CONTEST AREA NAME: IT Network Systems Administration
CONTEST AREA NUMBER: 39	LEVEL: Secondary
DURATION OF CONTEST: 6 hours	LOCATION: Virtual

CONTEST INTRODUCTION

Purpose of the Challenge.

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

Skills and Knowledge to be tested.

The competition evaluates a competitor's knowledge of computer and network hardware, and systems administration of Windows and Linux operating systems.

CONTEST DESCRIPTION

List of documents produced and timeline for when competitors have access to the documents.
No other competition document will be released prior to the competition.

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Essential Skills

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

Physical system setup

- Identify, install, connect and test hardware components
- 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

Troubleshooting

- 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 problems
- Problem examples might include things like; inability to login, cannot access website, or machine not starting properly etc.

Note: Competitors will not be allowed to compete if the above items are not brought and used.

EQUIPMENT, MATERIAL, CLOTHING

Equipment and Material supplied by Skills Canada-Newfoundland and Labrador

- Suitable computer hardware, both physical and virtual could be provided
- SOHO Integrated Router device
- Cisco Packet Tracer Software
- Suitable computer software
- VMWare virtualization software
- Windows 8.1, 10
- Ubuntu 16.04 or later

Note: Network services are expected to be provided by the candidate, due to the competition being held virtually.

Equipment and Material Competitor must supply:

- Pen and paper

Required clothing (Provided by competitor)

- Competitors must be dressed as appropriate for an office environment.

EVALUATION/JUDGING CRITERIA

Point Breakdown

POINT BREAKDOWN	/1000
Physical system setup	250
Desktop system configuration	250
Networking	250
Troubleshooting	250

ADDITIONAL INFORMATION

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.

Competition Rules

Please refer to the competition rules for all general SCPC information.

PROVINCIAL TECHNICAL COMMITTEE MEMBERS

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