



35 Weeks/700 Hours

Course details



NETWORK ENGINEERING



STUDENT SUPPORT COMMUNITY



Employment opportunities and salary

TECHNOLOGY FACULTY

- ✓ Computer network technician
- ✓ Data centre operator
- ✓ Internet Web site technician
- ✓ LAN (local area network) administrator
- ✓ LAN (local area network) technician
- ✓ Network administrator
- ✓ Network support technician
- ✓ Supervisor, computer network technician
- ✓ System administrator
- ✓ Web technician

C\$30,40/ hour
 Avg. Base Hourly Rate (CAD)
 Source: jobbank.gc.ca And payscale.com

C\$71,112year
 Avg. Base Salary (CAD)

NOC codes:

- Computer Network Technician: 2281
- Support Technician: 2282



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NETWORK ENGINEERING



Program Summary

The Network Engineering Diploma program is designed to create an efficient and expandable network. This networking program is suitable for students who want to embark on an exciting new career in establishing, operating and maintaining corporate networks and systems and pursue a career in IT.



Learning Focus

- Installing & Configuring Windows Server
- Administering Windows Server
- Configuring Advanced Windows Server Services
- Implementing an Advanced Server Structure
- Red Hat Linux Essentials
- Computer Hardware & Operating System Essentials
- Interconnecting Cisco Networking Devices Part 1 & 2
- Designing & Implementing a Server Infrastructure
- IT Security, safety and environmental issues
- Implementing Cisco IP Routing & Switching - CCNP
- Troubleshooting and Maintaining Cisco IP Network
- Linux II



What do network engineer do?

The work of network engineers revolves around their employers' computer network designs and implementations, and they are salaried instead of paid on an hourly basis. They generally work in offices to troubleshoot problems related to their company's enterprise-wide network, and they must ensure that their systems' security and firewall software is up-to-date. Network engineers must be knowledgeable of a variety of networking technologies, such as routing, cryptographic tunneling, firewalls, and others. A bachelor's degree in information technology, computer science, or a related field is generally required for this position; however, some companies may accept candidates with significant prior experience instead of a degree.

NETWORK ENGINEERING



Installing & Configuring Windows Server

Through this module you will gain the skills and knowledge needed to implement a core Windows Server. You will learn how to implement and configure the core services and networking services.

Hours

36

Administering Windows Server

This course provides hands-on instruction and practice administering Windows Server. This course focuses on the administration tasks necessary to maintain a Windows Server infrastructure such as configuring and troubleshooting name resolution, user and group management.

100

Configuring Advanced Windows Server Services

Through this course you will gain the skills and knowledge necessary to implement a core Windows Server, including Windows Server R2 infrastructure in an existing enterprise environment. You will learn the advanced configuration and services tasks needed to implement, manage, and maintain a Windows Server infrastructure. You will cover advanced networking services, Active Directory Domain Services (AD DS), identity management, rights management, Federated services, network load balancing, failover clustering, business continuity, and disaster recovery.

100

Implementing an Advanced Server Structure

In this course, you will learn how to plan, design, and deploy physical and logical Windows Server enterprise environments. You will acquire the knowledge and skills to plan and implement a highly available, secure infrastructure with focus on Active Directory Federation Service (AD FS), public key infrastructure (PKI), and Active Directory Rights Management Services (AD RMS). You will also learn how to plan and deploy virtual machines including self-service and automation of virtual machine deployments as well as planning and implementing a monitoring strategy that includes Microsoft System Center Operations Manager.

75

Red Hat Linux Essentials

A Red Hat Enterprise Linux power user familiar with common command line processes who can perform some system administration tasks using graphical tools. The individual will also be ready to develop a deeper understanding of Red Hat Enterprise Linux system administration.

25

Computer Hardware & Operating System Essentials

This module builds a foundation for students to understand family characteristics in terms of structure, functions and roles. The influence of cultural values, practices, religious beliefs on family relationships will be emphasized as central to the PSWs ability to provide effective support. The stages of growth and development throughout the life cycle are also discussed.

75

Interconnecting Cisco Networking Devices Part 1 & 2

This course teaches learners how to install, operate, configure, and verify a basic IPv4 and IPv6 network, including configuring a LAN switch, configuring an IP router, connecting to a WAN, and identifying basic security threats. It helps you prepare for associate-level routing and switching network engineering roles. Further, this module provides an understanding of Quality-of-Service (QoS) elements and their applicability and of how virtualized and cloud services will interact with and impact enterprise networks, along with an overview of network programmability and the related controller types and tools that are available to support Software-Defined Network (SDN) architectures.

100



Designing & Implementing a Server Infrastructure

The two courses collectively cover designing, planning, deploying, securing, monitoring, automating, and virtualizing an enterprise server infrastructure. This Server Infrastructure course covers the knowledge and skills needed to provide an enterprise solution that supports manual and automated server installations in a physical and virtual environment including the supporting file and storage services. You will also learn the skills necessary to provide enterprise networking solutions

Hours

100

IT Security, safety and environmental issues

The Cyber Security program will deepen your understanding of cyber security topics, strengthen your skills as an IT manager or project lead.

25

Contact us

<https://computek.edu/>
(416) 321-9911

