Certified Network Principles

Description:

What is a network? You hear the word all of the time, and you may have a vague idea about what it means. However, in today's computing space, networks are EVERYTHING and a vague understand is just not enough.

In this fun and fast paced course you will learn concepts and skills needed to plan, install, maintain, and troubleshoot today's networks including wireless and server-based networks!

Want to learn about new technologies like virtual networks and SD Networks found in many cloud architectures? We've got you covered, and then we move to physical components, TCP/IP Stack, OSI Model, switches, routers, wireless, and Bluetooth.

Lastly, we finish up the C)NP with the knowledge you need to perform the day to day operations of an organization, so you will be able to secure and maintain an entire network!

Key Course Information

Live Class Duration: 5 Days
CEUs: 40
Language: English
Class Formats Available:

Instructor Led

Self-Study

Live Virtual Training

Suggested Prerequisites:
(Any of the following Mile2 Courses)

- C)HT/C)OST or equivalent knowledge

Modules/Lessons

Module 1 - Intro to Network Fundamentals

Module 2 -The Physical Networking Fundamentals

Module 3 - TCP/IP Primer

Module 4 - Connecting Networks with Switches and Routers

Module 5 - Wireless Networking

Module 6 - Security Principles

Module 7 - Defending the Network

Module 8 - Network Technology Boom

Module 9 - Day to Day Networking

Module 10 - Network Planning

Who Should Attend

- Everyone
- End Users
- Employees
- Managers

Accreditations

www.mile2.ca 403 Bank St Ottawa, ON K2P 1Y6 613-416-8898

Upon Completion

Upon completion, the Certified Network Principles candidate will be able to competently take the C)NP exams well as the Comp TIA Network+ exam. You will have the knowledge to keep a companies' IP network infrastructure secure.

Exam Information

The Certified Network Principles exam is taken online through Mile2's Learning Management System and is accessible on you Mile2.com account. The exam will take approximately 2 hours and consist of 100 multiple choice questions.

A minimum grade of 70% is required for certification.

Re-Certification Requirements

All Mile2 certifications will be awarded a 3-year expiration date.

There are two requirements to maintain Mile2 certification:

1) Pass the most current version of the exam for your respective existing certification
2) Earn and submit 20 CEUs per year in your Mile2 account.

Course FAQ's

Question: Do I have to purchase a course to buy a certification exam?

Answer: No

Question: Do all Mile2 courses map to a role-based career path?

Answer: Yes. You can find the career path and other courses associated with it at www.mile2.com.

Question: Are all courses available as self-study courses?

Answer: Yes. There is however 1 exception. The Red Team vs Blue Team course is only available as a live class.

Question: Are Mile2 courses transferable/shareable?

Answer: No. The course materials, videos, and exams are not meant to be shared or transferred.

Course and Certification Learning Options

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Detailed Outline:

Course Introduction

Module 1 – Introduction to Network Fundamentals

Section 1: Networking concepts
Section 2: Classifying networks
Section 3: Network models
Section 4: The troubleshooting process

Module 2 – The Physical Networking Fundamentals

Section 1: Connection technologies
Section 2: Network devices
Section 3: Copper media
Section 4: Optical media
Section 5: Ethernet standards

Module 3 – TCP/IP Primer

Section 1: IP addressing
Section 2: Core protocols
Section 3: Network ports and applications

Module 4 – Connecting Networks with Switches and Routers

Section 1: Switching
Section 2: Routing

Module 5 – Wireless Networking

Section 1: Wireless networks
Section 2: Wireless LAN standards
Section 3: Internet connections
Section 4: WAN infrastructure

Module 6 – Security Principles

Section 1: Goals and threats
Section 2: Digital security
Section 3: Transport encryption

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Module 7 – Defending the Network

Section 1: Network security components
Section 2: Network authentication systems
Section 3: Hardening networks

Module 8 – Network Technology Boom

Section 1: Network convergence
Section 2: Virtual and cloud systems

Module 9 – Day to Day Networking

Section 1: Network convergence
Section 2: Virtual and cloud systems

Module 10 – Network Planning

Section 1: Network policy design
Section 2: Network installation
Section 3: Maintenance and upgrades

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