

# Networking Certificate

Certificate Number 90-150-2

## Description:

The Networking Certificate is designed for individuals interested in developing basic skills in designing, installing, configuring, and maintaining computer networks. All credits from this certificate can be applied to meet requirements in the E-Business Technology Specialist associate degree program.

## Requirements for Certificate Entry:

- Experience using a computer system to include a keyboard and mouse.
- Ability to keyboard at 20 wpm.
- User level familiarity with one or more computer operating systems.

## Certificate Completers Will be Able to:

- Design a local area network (LAN) per specifications and using required physical components.
- Install network hardware including modems, interface cards, and cabling.
- Install and configure network and desktop operating system software.
- Design, implement, and maintain a secure network environment.

## Curriculum

CATALOG #	DESCRIPTION	CREDITS
10-150-174 <i>Offered in: Fall 2008 Spring 2009</i>	<b>Network: Client Operating Sys...</b> basic OS functions; memory, CPU, device/file management techniques, OS installation/configuration; configuration of I/O and storage devices; basic network connectivity; standard system maintenance procedures; command line introduction and batch file writing.	3
10-150-165 <i>Offered in: Fall 2008 Spring 2009</i>	<b>Network: MS Server/Networking...</b> Microsoft Server OS administration and implementation. Learner will install and configure the OS, Active Directory, Group Policies, IIS and security. Exam objectives for the Microsoft's 70-290 exam are addressed.	3
10-150-145 <i>Offered in: Fall 2008 Spring 2009</i>	<b>Network: Security Fundamentals...</b> examine common security vulnerabilities and defenses used to protect network resources. Included is a discussion of security policies, user awareness training, network monitoring, and secure network design.	3
10-150-163 <i>Offered in: Fall 2008 Spring 2009</i>	<b>Network: Structures 1...</b> cable characteristics and termination, structured cabling systems, OSI reference model, IP addressing and subnetting, network architectures and basic protocols, Ethernet switches, basic router operation and configuration.	3
10-150-168 <i>Offered in: Fall 2008 Spring 2009</i>	<b>Network: Structures 2...</b> configuring routing protocols, access control lists, broadcast and collision domains, serial protocols, WAN services, protocol analysis, cellular communications, and Internet access alternatives.	3
10-150-157 <i>Offered in: Fall 2008 Spring 2009</i>	<b>Network: UNIX/LINUX-Intro...</b> an introductory look at Unix/Linux administration and implementation. The learner will install, configure, and administer a Unix/Linux server, populate the system with users/groups, write scripts, and troubleshoot system failures.	3
		<i>Certificate Total</i> <b>18</b>

CRITICAL SKILLS REQUIRED TO BE SUCCESSFUL IN EACH CORE PROGRAM COURSE ARE LISTED ON THE PROGRAM WEBSITE AT: <http://network.nwtc.edu/net/courseskillreq.htm>  
LEARNERS SHOULD REVIEW THIS INFORMATION CAREFULLY BEFORE ENROLLING IN A COURSE.

**For more information, please contact:** The Business and Information Technology Division, (920) 498-5435, or (800) 422-NWTC, extension 5435, or contact Donna Meves, Flexible Learning Manager, (920) 498-6872 or (920) 498-5431, [donna.meves@nwtc.edu](mailto:donna.meves@nwtc.edu).