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## Course Outline for CNT 54

### WINDOWS CLIENT – MS NETWORKING CERTIFICATION

Effective: Fall 2010

#### I. CATALOG DESCRIPTION:

CNT 54 — WINDOWS CLIENT – MS NETWORKING CERTIFICATION — 3.00 units

In this class, students learn to install and configure the current Windows client workstation for a professional business network using virtualization and/or online using virtual labs. Students install applications and learn to configure laptop computers. Course content follows the Microsoft Official Academic course curriculum and is intended to prepare students to take the Microsoft client component of the Microsoft Certified IT Professional (MCITP), Microsoft Certified Technology Specialist (MCTS), or the Microsoft Certified Systems Engineer (MCSE) certification exam. Topics include creation of user and group accounts, group policies, administering access to shared resources, configuration of hardware devices, monitoring of system resources, troubleshooting, and ensuring data integrity and security.

2.50 Units Lecture 0.50 Units Lab

#### **Strongly Recommended**

CNT 51B - CompTIA's A+ Practical Application Certification  
and

CNT 52 - Networking Fundamentals

#### **Grading Methods:**

Letter or P/NP

#### **Discipline:**

	<b>MIN</b>
<b>Lecture Hours:</b>	45.00
<b>Lab Hours:</b>	27.00
<b>Total Hours:</b>	72.00

#### II. NUMBER OF TIMES COURSE MAY BE TAKEN FOR CREDIT: 2

#### III. PREREQUISITE AND/OR ADVISORY SKILLS:

**Before entering this course, it is strongly recommended that the student should be able to:**

##### A. CNT51B

1. measure correct voltages in power systems and troubleshoot power suppliers
2. identify CPUs and motherboards; install and troubleshoot CPUs and motherboards
3. determine memory systems and install RAM and troubleshoot memories
4. identify Expansion cards; install expansion cards installation
5. locate and configure ports, cables, and connectors
6. install and configure data storage devices: hard drives, optical drives, removable storage devices;
7. install, maintain and troubleshoot printers and scanners;
8. configure mobile computing, including component replacement and troubleshooting;
9. manage files and perform remote desktop connections; manage computers remotely'
10. maintain and monitor Windows; schedule tasks;
11. install a wireless network for SOHO networking
12. troubleshoot the network;
13. implement and troubleshoot security and identify common security threats.

##### B. CNT52

#### IV. MEASURABLE OBJECTIVES:

**Upon completion of this course, the student should be able to:**

- A. identify the key feature of the current windows client
- B. install the current windows client
- C. configure system settings
- D. convert basic disks to dynamic disks
- E. work with users and groups
- F. work with drivers and printers
- G. configure network connectivity

- H. configure current windows client security
- I. configure current windows client applications
- J. optimize current windows client performance
- K. troubleshoot current windows client
- L. work with mobile computers

#### V. CONTENT:

- A. Installing Current Windows Client
  - 1. Introduction to Current Windows Client
  - 2. Performing a clean installation of Current Windows Client
  - 3. Installing and configuring Current Windows Client device drivers
- B. Upgrading and migrating to Current Windows Client Edition
  - 1. Upgrading and migrating to Current Windows Client from previous version of Windows
  - 2. Upgrading between Windows Client editions
- C. Upgrading and migrating to Current Windows Client Edition
  - 1. Running user state migration tool (USMT) to scan a user's settings
  - 2. Running USMT to load a user's settings
- D. Configuring post-installation system settings
  - 1. Configuring the Windows Aero experience
  - 2. Configuring accessibility features
  - 3. Configuring parental controls
- E. Sharing files by using Current Windows client
  - 1. Sharing data with others
  - 2. Managing Current Windows Client files
- F. Configuring advanced networking
  - 1. Configuring network connectivity
  - 2. Configuring remote access
  - 3. Troubleshooting remote access connections
- G. Configuring user account security
  - 1. Configuring user account control
  - 2. Troubleshooting user account control
- H. Configuring network security
  - 1. Configuring Windows Defender in Current Windows Client
  - 2. Configuring Windows Firewall settings
- I. Configuring Internet Explorer
  - 1. Configuring Internet Explorer
  - 2. Configuring dynamic security for Internet Explorer
- J. Maintaining and optimizing current Windows Client systems
  - 1. Maintaining performance by using Current Windows Client performance tools
  - 2. Optimizing Windows by using current Windows Client diagnostics tools
  - 3. Configuring Windows update
- K. Configuring current Windows client media applications
  - 1. Configuring Windows Media Player for Current Windows Client
  - 2. Configuring Windows Media Center
- L. Configuring Current Windows Client productivity applications
  - 1. Configuring Windows Sidebar
  - 2. Configuring Windows Mail
  - 3. Configuring Windows Meeting Space
  - 4. Configuring Windows Calendar
  - 5. Configuring Windows Fax and Scan
- M. Configuring mobile computers
  - 1. Configuring mobile computer settings
  - 2. Configuring mobile devices
  - 3. Configuring power options
- N. Configuring tablet PC settings
  - 1. Configuring Current Windows Client tablet PC settings
  - 2. Configuring pen and input devices
- O. Networking mobile computers
  - 1. Networking without wires
  - 2. Connecting to a wireless network
  - 3. Working with offline files

#### VI. METHODS OF INSTRUCTION:

- A. **Lecture** -
- B. **Discussion** -
- C. Collaborative Learning
- D. **Lab** - Laboratory assignments
- E. Internet assignments

#### VII. TYPICAL ASSIGNMENTS:

- A. Install Windows 7 Edition as a Virtual Machine 1. Create four users with limited permissions 2. Create two groups and add above users as members B. Do e-Lab: Create a new domain controller computer 1. Add two workstations to the domain you created

#### VIII. EVALUATION:

- A. **Methods**
- B. **Frequency**
  - 1. Frequency
    - a. Chapter practice quizzes, one mid-term and one final examination
    - b. Weekly hands-on computer projects covering common operating system functions from the text book and from instructor handouts.

#### IX. TYPICAL TEXTS:

- 1. Microsoft Official Academic Course *Windows 7 Configuration Package*., Microsoft Corporation, 2010.
- 2. - *Microsoft Virtual Labs*., Wiley Higher Education, 2010.
- 3. Virtual lab account

4. Bland CD, DVD or USB to store class materials

X. OTHER MATERIALS REQUIRED OF STUDENTS: