

COURSE OUTLINE

Revision: Jay Abram, Date: January, 2009

DEPARTMENT: Technical Education
CURRICULUM: Computing Technology
COURSE TITLE: Local Area Networks III, Network Administration
COURSE NUMBER: CTN 274
TYPE OF COURSE: Vocational Preparatory
COURSE LENGTH: 1 Quarter
CREDIT HOURS: 5
LECTURE HOURS: 55
LAB HOURS: 0
CLASS SIZE: 24
PREREQUISITES: CTN 272

COURSE DESCRIPTION:

Covers advanced topics in computer networking, including remotely installing operating systems, implementing network security, setting up directory services, designing and implementing policies, setup and implementation of print services and configuring distributed file systems

STUDENT LEARNING OUTCOMES ADDRESSED:

1. Information Literacy - Use various sources to access the most current information on computer networks.
2. Critical Thinking and Problem Solving - Evaluate network operating systems and perform basic installation, configuration and troubleshooting.
3. Technology - Use appropriate technological tools to install, configure and troubleshoot.

PROGRAM OUTCOMES ADDRESSED:

- 1b Identify network devices and OSI components and systems.
- 1c Identify network devices and operating systems combinations.
- 2a Install and properly configure network devices and related operating systems.
- 2c Build, configure, and prepare a network server for a given role.
- 2d Be able to install, configure, and use various Microsoft, Novell, and open source operating systems.
- 3a Select, implement appropriate troubleshooting tools and methods for problem solving.
- 3b Be able to analyze and troubleshoot various Microsoft, Novell, and open source operating systems.
- 3c Troubleshoot and solve problems occurring at any level of the OSI layers in a network.
- 3d Correctly add/remove/change users and computers, sites, and domains in a network.
- 3f Be able to secure and monitor activities on computers and networks.
- 4a Use critical thinking for analysis of hardware, OS, or network problems.
- 4b Access information efficiently and accurately to resolve computer problems.
- 4c Work effectively with others to accomplish complex tasks.

GENERAL COURSE OBJECTIVES:

At the end of the course the student will:

1. Install and configure Windows 2000 Server
2. Setup and administer user and group accounts.
3. Setup and manage Active Directory
4. Configure and control access to printers.
5. Manage, troubleshoot, and control access to files, folders, and shared folders.
6. Convert Windows 2000 file system from FAT to NTFS; create and use dynamic drives
7. Identify Active Directory objects and their hierarchy.
8. Understand Active Directory structure and relationship to W2K architecture.
9. Be able to manage policies; permissions and rights.
10. Configure local and roaming user profiles.

TOPICAL OUTLINE:	APPROX. HOURS
I. Introduction to Windows 2000 Server, Advanced Server	5.0
II. Disk management	5.0
III. User and Group profiles and permissions	5.0
IV. File systems and permissions	5.0
V. Active Directory structure	10.0
VI. Administering Print Services	5.0
VII. Trust Relationships; domains	5.0
VIII. Protocols	5.0
Total	<hr/> 55.0Hours

WRITTEN BY: Carol Koepke
REVISED BY: Jay Abram
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