

Course Outline
DCOM 223
Advanced NetWare
4 Semester Hours

The Community College of Baltimore County

Description

Advanced NetWare

Provides an in-depth experience in administering a local area network and preparation for the Novell CNA (Certified Network Administrator) exam; examines LAN administration skills using Novell's NetWare network operating system, basic user skills, defining network objects, designing the file system, managing user access, securing the file system, working with NDS security, implementing, network printing, implementing login scripts, managing user environments, and operating the server console.

Prerequisite: DCOM 222

Overall Course Objectives

Upon completion of this course the student will be able to perform all of the course objectives listed for DCOM 222 plus:

- A. Define NDS security and explain how it differs from file system security
- B. Control access to an object in the NDS tree
- C. Determine rights granted to NDS objects through NDS rights inheritance
- D. Use inherited rights filters
- E. Determine an objects effective rights
- F. Troubleshoot NDS security problems
- G. Describe the benefits of Z.E.N. works
- H. Explain the components of NAL
- I. Distribute applications using NAL
- J. Manage applications with NAL
- K. Create policy packages and configure policies in NDS
- L. Register workstations in NDS and import them into the NDS tree
- M. Use policies to configure the desktop environment throughout the network
- N. Set user context to provide users with access to needed resources
- O. Explain a basic NetWare 5.0 server installation.

Major Topics

- A. Designing the Network
 - 1. LAN Communications
 - 2. Network Components

- B. Planing the Novell Directory Services (NDS) Directory Tree
 - 1. NDS Reviewed
 - 2. NDS Components
 - 3. Designing the Directory Tree
 - 4. Approaches to Directory Tree Design
- C. Planning the Network File System
 - 1. NDS Components Versus Network File System Components
 - 2. Directory Structure
 - 3. NetWare File and Directory Utilities
- D. Installing NetWare 5.0
 - 1. NetWare Network Operating System Installation
 - 2. Novell Client Software Installation
- E. Creating the NDS Tree Structure
 - 1. NetWare Command and Utility Groups
 - 2. NetWare Administrator
 - 3. Completing the Organizational Structure in the Directory Tree
 - 4. Working with the Alias Leaf Object
- F. Creating the Network File System
 - 1. Directory Management
 - 2. File Management
- G. Managing Users, Groups, and Login Security
 - 1. Login Security
 - 2. Managing Users and Groups
 - 3. NetWare Accounting
 - 4. NetWare Utilities and Commands
- H. Managing Trustee Assignments and File Attributes
 - 1. Trustee Assignments
 - 2. Directory and File Attributes
- I. Installing Applications
 - 1. Determining NetWare Compatibility
 - 2. Determining Single-User or Multi-User Capability
 - 3. Determining the Appropriate Directory Structure
 - 4. Performing the Application Installation Procedure
 - 5. Setting Appropriate Directory and File Attributes
 - 6. Providing User Access Rights
 - 7. Testing the Software
 - 8. The Application Launcher
- J. NetWare Printing
 - 1. Defining the Printing Environment
 - 2. NDPS Components
 - 3. Configuring NDPS
- K. Login Scripts
 - 1. Types of Login Scripts
 - 2. Implementing Login Scripts
- L. Managing the Network
 - 1. Starting the Server
 - 2. Console Operations
 - 3. Remote Console Management
 - 4. Managing with ConsoleOne

5. Server Licensing
6. Protecting Network Data
7. Other Management Tools
8. Creating Administrative Assistants
9. Managing Your Multiple-Context Network

Course Requirements

Grading/exams: Procedures for grading will be determined by the individual faculty member; there will be a *minimum* of 10 graded assignments. A final examination is required. Other graded assignments may come from any combination of the following categories: quizzes, hourly exams, a midterm exam, group projects, individual reports/presentations, or lab projects.

Writing: The individual faculty member will determine specific writing assignments.

Other Course Information

This course is taught in a computerized environment.

This course is the second course in a sequence of two courses in the Novell CNA (Certified Network Administrator) concentration.

Individual faculty members may include additional course objectives, major topics, and other course requirements to the minimum expectations stated in the Common Course Outline.

Date Revised: 6/7/00