

COCONINO COMMUNITY COLLEGE

COURSE OUTLINE

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Reviewed by: D. Bowman
Status: Permanent

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A. Identification:

1. Subject Area: Microsoft Certified Systems Administrator
2. Course Number: CIS 250
3. Course Title: Implementing a Microsoft Windows Network Infrastructure
4. Credit Hrs: 4
5. Catalog Description:

Installing, configuring, managing, and supporting a network infrastructure that uses the Microsoft Windows Server products. This course helps to prepare students to take the Microsoft Certified Professional exam for implementing a Microsoft Windows Network Infrastructure. Prerequisite: CIS 130 or consent of instructor. Four lecture. May be taken for S/U credit.

B. Course Goals:

To develop the skills needed to implement a Microsoft Windows Network Infrastructure. Designed for students either currently working or wishing to work in the information technology field.

C. Course Outcomes:

Students will:

1. Configure the DHCP Server service.
2. Configure the DNS Server service.
3. Configure WINS.
4. Configure network security protocols.
5. Configure network security by using Public Key Infrastructure (PKI)
6. Configure network security by using Internet Protocol Security (IPSec)
7. Configure remoter access to a network.
8. Support remote access to a network.
9. Extend remote access capabilities by using Internet Authentication Service (IAS)
10. Configure windows as a network router.
11. Configure Internet access for a network.
12. Configure a Web server.
13. Deploy Windows Professional by using Remote Installation Services (RIS)
14. Manage a Windows network.
15. Identify and resolve network connectivity problems by using Windows troubleshooting tools and utilities.
16. Enable network connectivity between NetWare, Macintosh, and UNIX networks.

E. Course Outcomes Assessment:

Assessment will include:

1. Pre-Post Test
2. Practical Final Exam (creating the infrastructure on a Server)

D. Course Content:

Will include:

1. Introduction to Microsoft Windows Networking Infrastructure.
2. Automating Internet Protocol (IP) Address Assignment
3. Implementing Name Resolution Using DNS
4. Implementing Name Resolution by Using WINS.
5. Configuring Network Security by using Public Key Infrastructure.
6. Configuring Network Security by Using IPsec.
7. Configuring Remote Access.
8. Supporting Remote Access to a Network.
9. Extending Remote Access Capabilities by Using IAS.
10. Configuring a Windows - Based Server As a Router.
11. Configure Internet Access for a Network.
12. Configuring a Web Server
13. Deploying Windows client OS by Using RIS.
14. Managing a Windows Network.
15. Troubleshooting Window 2000 Network Services.
16. Configuring Network Connectivity Between Operating Systems