

Minnesota State College Southeast

COMC 1754: Microsoft Server Management for Web Developers

A. COURSE DESCRIPTION

Credits: 3

Lecture Hours/Week: 2

Lab Hours/Week: 1

OJT Hours/Week: *.*

Prerequisites: None

Corequisites: None

MnTC Goals: None

This course introduces network server configuration and management concepts using Microsoft Windows Server. Course includes Windows Server Enterprise and Server Core installation procedures, user and service accounts, Active Directory, file and folder permissions, Group Policy, TCP/IP routing and subnetting, DHCP configuration, web and FTP server configuration, remote access and VPN configuration, command-line tools, and Docker containers. (3 credits: 2 lecture/1 lab)

B. COURSE EFFECTIVE DATES: 10/20/2005 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

D. LEARNING OUTCOMES (General)

1. Install server operating system
2. Install and manage server hardware devices
3. Describe user authentication methods and protocols
4. Describe Windows Server deployment options
5. Configure Advanced File Service
6. Perform server monitoring and auditing
7. Configure Remote Access
8. Configure Network Policy
9. Configure Domain Controller
10. Perform Active Directory management
11. Configure user and service accounts
12. Configure Group Policy settings and preferences
13. Describe network types and protocols
14. Configure TCP/IP parameters
15. Describe TCP/IP subnetting concepts
16. Create subnets
17. Describe TCP/IP application, transport, and internet layer protocols
18. Describe DHCP concepts
19. Create DHCP scopes and reservations
20. Configure and manage DNS
21. Determine user's effective permission
22. Describe host name resolution concepts
23. Describe remote access technologies
24. Describe VPN protocols
25. Configure VPN/remote access servers
26. Describe TCP/IP routing concepts
27. Configure routing table
28. Install and configure IIS server
29. Create IIS virtual directories
30. Describe web authentication services
31. Configure FTP server
32. Configure IIS security
33. Describe server security tools
34. Describe print server concepts
35. Describe system backup concepts
36. Perform configuration using command-line tools
37. Deploy operating system using Docker container
38. Display professional attitude

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

None

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

G. SPECIAL INFORMATION

This course was previously called Network Management Basics