

Virginia Western Community College
ITN 111
Server Administration (2012)

Prerequisites

TEL 150

Course Description

Covers installation, configuration, administration, management, maintenance, and troubleshooting of a server in a networked environment.

Semester Credits: 4 Lecture Hours: 4 Lab/Clinical/Internship Hours: 0

Required Materials**Textbook:**

70-410 Installing and Configuring Windows Server 2012 R2 with MOAC Labs Online Reg Card Set Microsoft Official Academic Course ISBN 978-1118966112 (textbook and online labs)

Other Required Materials:

none

Course Outcomes

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

- Install and configure Active Directory Services.
- Implement DHCP and DNS services
- Design an Active Directory Infrastructure
- Implement and deploying Application Server and Terminal Servers.
- Gain an appreciation for Virtualization techniques.
- Install and configure print and fax services.
- Grasp the issue around Server Storage solutions.
- Plan for High Availability of Windows Servers.
- Plan server and network security
- Secure infrastructure services
- Manage and Monitoring servers
- Grasp Server backup and restore processes
- Manage user and group rights and permissions on Windows Server 2012

Topical Description

Week 1: Chapter 1
Installation and getting started
Installing Servers

Week 2: Chapter 2
Configuring Servers

Week 3: Chapter 3
Configuring Local Storage

Week 4: Chapter 4
Configuring File and Print Access
Unit exam 1 [chapters 1-4]

Week 5: Chapters 5 and 6
Configuring Print and Document Services (opt module)
Configuring Servers for Remote Management

Week 6: Chapters 7 and 8
Creating and Configuring Virtual Machine Settings
Creating and Configuring Virtual Machine Storage

Week 7: Chapters 9 and 10
Creating and Configuring Virtual Networks
Configuring IPv4 and IPv6 addressing
Unit Exam 2 [chapters 6-10]

Week 8: Chapter 11
Deploying and Configuring DHCP Service

Week 9: Chapter 11
Deploying and Configuring DNS Service

Week 10: Chapter 13
Installing Domain Controllers

Week 11: Chapter 14
Creating and Managing Active Directory Users and Computers
Unit Exam 3 [chapters 11-14]

Week 12: Chapter 15
Creating and Managing Active Directory Groups and OUs

Week 13: Chapter 16
Creating Group Policy Objects

Week 14: Chapter 17
Configuring Security Policies

Week 15: Chapter 18 and 19
Configuring Application Restricted Policies (opt module)
Configuring Windows Firewall

Notes to Instructors

- All instructors are to use the same textbook
- All course sections are to follow the same basic course outline
- All hybrid sections must allow for students to complete the labs during regular class time
- Lectures must be made available for asynchronous viewing by students taking this class in a non-traditional manner.