

Virginia Western Community College
ITN 111
Server Administration (Windows Server 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:

- Describe the role of Windows 2012 and interaction with other software and services
- Show understanding of general operating system processes
- Install and configure Active Directory Services.
 - Install as domain controller, identify and resolve issues
- Implement DHCP and DNS services.
- Design an Active Directory Infrastructure.
- Create and configure file systems, permissions and quotas
- Create and manage Active Directory, users and groups
- Implement and deploying Application Server and Terminal Servers.
- Understand virtualization.
- Create and use hypervisor for OS support
- Install and configure print and fax services.
- Grasp the issue around Server Storage solutions.

- Plan for High Availability of Windows Servers.
- Understand user rights, configure security options and UAC
- Secure infrastructure services.
- Manage and Monitoring servers and server logs.
- Grasp Server patching, backup and restore processes.
- Manage user and group rights and permissions on Windows Server 2012

Topical Description

Week 1	Lesson 1 Installing Servers
Week 2	Lesson 2 Configuring Servers Quiz Lessons 1 and 2
Week 3	Lessons 3 and 4 Configuring Local Storage Configuring File and Print Access Quiz Lesson 3 Lab Lesson 4
Week 4	Lesson 5 Configuring Print and Document Services Quiz Lesson 5
Week 5	Lesson 6 Configuring Servers for Remote Management Quiz Lesson 6 Lab Lesson 6
Week 6	Lesson 7 Creating and Configuring Virtual Machine Settings Quiz Lesson 7
Week 7	Lessons 8 and 9 Creating and Configuring Virtual Machine Storage Creating and Configuring Virtual Networks Quiz Lesson 8 Lab Lesson 9
Week 8	Midterm Exam on Lessons 1 – 9
Week 9	Spring Break – N/A
Week 10	Lesson 10 Configuring IPv4 and IPv6 addressing Quiz Lesson 10

Week 11	Lessons 11 and 12 Deploying and Configuring DHCP Service Deploying and Configuring DNS Service Quiz Lesson 11 Lab Lesson 12
Week 12	Lesson 13 Installing Domain Controllers Quiz Lesson 13
Week 13	Lesson 14 Creating and Managing Active Directory Users and Computers
Week 14	Lessons 15 and 16 Creating and Managing Active Directory Groups and OUs Creating Group Policy Objects Lab Lesson 15 Quiz Lesson 16
Week 15	Lessons 17 and 18 Configuring Security Policies Configuring Application Restricted Policies Quiz Lesson 17 Lab Lesson 18
Week 16	Lesson 19 Configuring Windows Firewall Quiz Lesson 19
Week 17	Final Exam on Lessons 10 – 19

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 nontraditional manner.