

Revised: Spring 2014

ITN111

Server Operating System (Windows 2012)

COURSE OUTLINE

Prerequisites:

ITN109

Course Description:

Covers basic instruction in various network protocols, name resolution services, remote access, security, and print installation, configuration, administration, monitoring, and troubleshooting of Server Administration software (Server 2012) in an Active Directory domain environment. Maps to Microsoft test 70-410.

Semester Credits: 3 Lecture Hours: 3 Lab/Recitation Hours: *Select Hours*

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Course Outcomes

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

This hands-on course is designed to prepare you for the challenges you will face as a Microsoft networking professional. Lectures, tests and exercises reinforce skills as they are learned. Specific topic coverage includes: Introduction to Windows Server 2008, Managing Hardware Devices, Creating and Managing Users, Implementing and Managing Groups, Managing Access to Files, Managing Disk and Data Storage, Advanced File System Management, Implementing and Managing Printing, Implementing and Using Group Policies, Administering a Server, Monitoring Server Performance, Managing and Implementing Backups and Disaster Recovery, Administering Web Resources, and Security Basics for Windows Server 2008. Late assignments are not allowed.

Students will learn to:

- Install Windows Server 2012 on a PC that meets at least minimum requirements.
- Install and configure Active Directory Services.
- Implementing DHCP and DNS services
- Designing an Active Directory Infrastructure
- Implementing and deploying Application Server and Terminal Servers.
- Gaining an appreciation for Virtualization techniques.
- Install and configure print and fax services.
- Grasping the issue around Server Storage solutions.
- Planning for High Availability of Windows Servers.
- Planning server and network security
- Securing infrastructure services
- Managing and Monitoring servers
- Server backup and restore
- Manage user and group rights and permissions on Windows Server 2008

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Required Materials:

One required textbook

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)

The following supplementary materials are available:

1. None.

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Topical Description (may contain timelines):

Suggested Weekly Schedule:

Week 1:

Installation and getting started
Installing Servers
Chapter 1

Week 2:

Configuring Servers
Chapter 2

Week 3:

Configuring Local Storage
Chapter 3

Week 4:

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

Week 5:

Configuring Print and Document Services (opt module)
Configuring Servers for Remote Management
Chapter 5 and 6

Week 6:

Creating and Configuring Virtual Machine Settings
Creating and Configuring Virtual Machine Storage
Chapters 7 and 8

Week 7:

Creating and Configuring Virtual Networks
Configuring IPv4 and IPv6 addressing
Chapters 9 and 10

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Unit Exam 2 [chapters 6-10]

Week 8:

Deploying and Configuring DHCP Service
Chapter 11

Week 9:

Deploying and Configuring DNS Service
Chapter 12

Week 10:

Installing Domain Controllers
Chapter 13

Week 11:

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

Week 12:

Creating and Managing Active Directory Groups and OUs
Chapter 15

Week 13:

Creating Group Policy Objects
Chapter 16

Week 14:

Configuring Security Policies
Chapter 17

Week 15:

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

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Notes to Instructors

(List information about optional topics, departmental exams, etc)

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

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