Complete Windows Server Administration Syllabus

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Module 1 – Understanding of Microsoft Windows

- What is Windows?
- Different Versions of Windows
- Microsoft Background and Products
- Windows Market Share – Everyday Windows
- Windows vs. Linux vs. MAC
- Quiz, Handouts and Homework

Module 2 – Setting up a Lab

- Oracle Virtual Box
- Installing Oracle Virtual Box
- Creating First Virtual Machine
- Quiz, Handouts and Homework

Module 3 – Windows Installation and Configuration

- Different Ways to Install OS
- Downloading Windows Server 2016 and 2022
- Installing Windows Server 2016 and 2022
- Adding Resources
- Hostname and System Information
- Windows Server GUI Overview
- Quiz, Handouts and Homework

Module 4 – System Access and File System

- Accessing Windows System
- File System and Description
- Navigating to File System
- File Types and Creation
- File Properties
- Finding Files and Directories
- File Maintenance *(copy, delete, move and rename)*
- Files Operations

- File Editing Short-Cut Keys
- Quiz, Handouts and Homework

Module 5 – System Administration

- User Account Management
- Elevating User Roles
- Monitor Users Activity *(Task manager and command line)*
- System Utilities Under Accessories
- Programs and Service Management *(Control panel and services)*
- System Resource Monitoring *(Task Manager)*
- Windows Event Logs
- System Maintenance
- Jobs and Schedules
- Windows Settings
- Server Manager Dashboard
- Installing and Uninstalling Programs
- Windows Applications *(Microsoft or 3rd Party)*
- Windows Short-Cut Keys *(e.g. Alt+Ctl+Del etc.)*
- Check System Hardware
- Quiz, Handouts and Homework

Module 6 – Advance Windows Administration

- Roles vs. Features
- Adding Roles and Features
- What is Domain Controller?
- Domain Controller and Active Directory
- Active Directory Prerequisites
- What is DNS?
- Active Directory Installation
- Active Directory "Users and Computers"
- Active Directory User Account Management
- Installing Windows Client

- Joining the Domain from Windows 7 and 10
- Active Directory "Administrative Center"
- Active Directory "Domain and Trust"
- Active Directory "Module for Windows PowerShell"
- Active Directory "Site and Services"
- Group Policy Management
- DNS Administration
- Web Server (IIS) Installation
- Quiz, Handouts and Homework

Module 7 – Windows Scripting and Command Line

- Windows Batch Scripting
- First Batch Script "Hello World"
- Script to Automate Simple Tasks
- Windows PowerShell
- Windows PowerShell Commands
- Windows PowerShell ISE *(Integrated Scripting Environment)*
- Windows Management Instrument *(WMIC)*
- Difference Between DOS and PowerShell
- Quiz, Handouts and Homework

Module 8 – Networking and System Updates

- What is NIC?
- Enable Internet on the VM
- NIC Teaming
- Network Configuration
- Windows Updates
- NTP Configuration
- File Transfer Methods
- FTP Server Installation and Configuration
- Sharing FileSystem *(Samba or NFS)*
- WSUS Server Installation and Configuration

- Windows Firewall
- Quiz, Handouts and Homework

Module 9 – Storage Management

- What is Computer Storage?
- Type of Computer Storage
- How to Add Disk
- Extend an Existing Disk
- Disk Cleanup and Defragmentation
- RAID
- Windows Backup and Restore
- Quiz, Handouts and Homework

Module 10 – Additional Resources (Bonus)

- What is IT?
- IT Components
- Facts about IT
- IT Management Jobs
- Resume Workshop
- Interview Workshop
- Post Resume and What to Expect
- VMWare Workstation Player Download and Installation
- Install Oracle VirtualBox on MAC
- Quiz, Handouts and Homework