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**Complete Windows Server Administration Syllabus**

**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
* Installing Windows Server 2016
* 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