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## Course: Server Administration

Duration: 15 Hrs (Changeable) | Fees: Individual / Batch

Since 2007, Nestsoft TechnoMaster has been providing training, internships, and services in IT technologies, both online and offline, with the expertise of **over 250 industry experts**. We have delivered internships, training, and seminars to more than 50,000 students, resulting in numerous success stories. **We offer 100% placement support through JobsNEAR.in**

### Our Courses/Internship

- Python/Django Fullstack
- Artificial Intelligence
- Machine Learning
- Data Science
- Software Testing (All)
- Wordpress, Woocommerce
- Digital Marketing, SEO
- Php/MySQL, Laravel
- Flutter, Android, IOS
- Asp.net MVC
- Web Design, Javascript
- Angular JS, React JS
- CCNA, MCSA, CCNP
- AWS, GCP, Azure
- Odoo, Salesforce, Sap
- Microsoft Excel
- Ethical Hacking



Syllabus on the Next Page ..



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+91 9895490866

+91 8301010866

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### MODULE 1


- \* What is Server?
- \* Client and Server Operating System
- \* What are Workgroup and Domain?
- \* How a Workgroup Environment is created
- \* How a Domain Environment is created
- \* Difference between Workgroup and Domain
- \* Types of Role in Server
- \* Overview of VMware Workstation
- \* Creation of Server in VMware Workstation


### MODULE 2

- \* Understanding of Active Directory(AD) Service
- \* Understanding of Domain Name System (DNS) Service
- \* Check the Port Numbers related to Service
- \* Troubleshooting using Ping and Telnet
- \* Installing of Active Directory (AD) Service in Server
- \* Creation of Domain Controller (DC)
- \* Joining a PC to Domain Environment
- \* Checking the health of Active Directory Service (AD)
- \* Understanding services of Active Directory (AD)
- \* Creation of Users & Group in Active Directory (AD)
- \* Adding Users in the group in Active Directory (AD)

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- \* NTFS Permission(Share & Security)
- \* Configuring Read/Write/Modify & Special Permission
- \* Understanding Explicit & Inherited Permission
- \* Configuring Access Based Enumeration (ABE)
- \* Configuring Shadow Copies & Home Folder
- \* Installation of FSRM (File Server Resource Manager)
- \* Applying Soft & Hard Quota on Folder
- \* Applying File Screening on Folder


### **MODULE 4**

- \* Need of Group Policy & How Group Policy Works
- \* User Policy & Computer Policy
- \* Default Domain Policy & Default Domain Controller Policy
- \* Group Policy Order and Precedence
- \* Configuring Recycle Bin Policy & Wallpaper Policy
- \* Configuring Audio Policy & Screen Saver Policy
- \* Benefits of Organization Unit (OU) & Creation of OU
- \* Blocking Inheritance & Enforce Policy
- \* Software Installation using Group Policy
- \* Group Policy Backup & Restore
- \* Prevent Policy Application using WMI Filter
- \* Domain Password Policy & Fine Grain Password Policy
- \* Configure Password Length, History & Complexity

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- \* Account Lock Policy and Account Lock Troubleshooting
- \* Delegate access to User/Group for User Management
- \* Performing Mapped Drive using Group Policy
- \* Group Policy Troubleshooting steps


### MODULE 5


- \* Need of Additional Domain Controller(ADC) & Creation of ADC
- \* Multi-Master Replication between DC & ADC
- \* Understanding of RODC (Read-Only Domain Controller)
- \* Replication between DC & ADC
- \* Checking ADC when DC is down
- \* Creation of Site & Subnet
- \* Understanding of Replication Schedule
- \* Replication between Domain Controllers (DC & ADC)
- \* Intra-Site & Inter-Site Replication
- \* Understanding of IFM (Install from Media)
- \* Working of KCC & Selection of Bridgehead Server

### MODULE 6

- \* Importance of Flexible Single Master Operation (FSMO) Roles
- \* Understanding Forest level and Domain Level Roles
- \* Deep Dive into the working of each Role
- \* Perform Transfer of Schema Master, DNM Master
- \* Perform Transfer of RID, PDC, Infra Master Operations

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- \* Impact on Domain when Role Holder DC is down
- \* Perform FSMO Role Seizure
- \* Active Directory Database Partition
- \* Understanding of Schema & Configuration Partition
- \* Understanding of Domain & Application Partition


### **MODULE 7**


- \* Need of Child Domain & Creation of Child Domain
- \* Understanding of Multi-Domain Environments
- \* Adding New Domain to Existing Forest
- \* Understanding DNS Delegation & Forwarders
- \* Understanding of Multi-Forest Environments
- \* Creation of Trust between 2 Forest
- \* Type of Trust and Nature of Trust
- \* Type of Groups in Active Directory
- \* Security & Distribution Group
- \* Global, Domain Local & Universal Group
- \* Understanding of Global Catalog Server


### **MODULE 8**

- \* Need of DNS & Active Directory Integrated DNS
- \* Host File, DNS Cache & DNS Zone
- \* DNS Forwarders, Delegation & Conditional Forwarders
- \* DNS A record, SRV Record, CNAME Record

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- \* Recovering Active Directory from Disaster
- \* Active Directory Recycle Bin
- \* System State Backup of Domain Controller


### MODULE 9


- \* Installing DFS Role on the Server
- \* DFS Namespace & Replication
- \* How SYSVOL Replication Works
- \* Installing DHCP Role on the Server
- \* How DHCP Works
- \* Understanding of APIPA & DORA Process
- \* Configure Scope, Exclusion, Lease, Reservation in DHCP
- \* Installing Windows Deployment Service (WDS) Role
- \* Configure Boot Image & Install Image
- \* Deployment of Operating System via Network (PXE Boot)
- \* Understanding of Windows Server Update Service (WSUS)

### MODULE 10

- \* Installing IIS Role on the Server
- \* Creation of Website
- \* Performing DNS Round Robin
- \* Installing NLB and Creation of Load Balancer
- \* Need of Redundant Array of Independent Disk (RAID)
- \* Configure RAID 0 - Striping, RAID 1 - Mirroring, RAID 5 - Strip Parity

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- \* Understanding RAID 10 - Strip Mirror
- \* Understanding & Need of Virtualization Technologies

## MODULE 11

- \* Need of Failover Cluster
- \* Installing Failover Cluster (FOC) Role on the Server
- \* Creation of SAN & ISCSI Disk
- \* Perform Failover Cluster
- \* Installing Active Directory Certificate Service (ADCS) Role on the Server
- \* Creation of Certificate Server
- \* Enterprise & Standalone CA
- \* Creation of Domain Certificate using CA
- \* Applying Certificate to the Webserver

## MODULE 12

- \* Understand the Need for Migration
- \* Migrate Active Directory Domain from 2012 to 2016
- \* Perform the Check after Successful Migration
- \* Upgrade Forest & Domain Functional Levels
- \* Resume Preparation and Interview Preparation Techniques

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**- Thank You -**

**N.B:** This syllabus is not final and can be customized as per requirements / updates.

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