

# W3 Engineers

## Standards/ Curriculum Format for Server Administration & Cloud Management

Course Duration: Three Months

## Course Curriculum

### • Operating System

- Learn Operating System Fundamentals.

Lesson

- Learn Operational Procedures.

Lesson

- Understand network fundamentals to create a SOHO network.

Lesson

### • Security Fundamentals

- Learn about Security fundamentals

Lesson

- Learn Security Protection Fundamentals

Lesson

### • Data Communications and Networking

- Defining Networks with the OSI Model.

Lesson

- TCP/IP.

Lesson

- Understanding Internet Protocol.

Lesson

- Working with Networking Services.

Lesson

- Defining Network Infrastructures and Network Security

Lesson

### • Windows Server 2012

- Introduction to Windows Server 2012

Lesson

- Deploying and Managing Windows Server 2012

Lesson

- Introduction to Active Directory Domain Services.

Lesson

- Active Directory Users & Groups

Lesson

- Implementing DHCP.

Lesson

- Popular Windows Network Services and Applications.

Lesson

- Implementing Web Server IIS.

Lesson

○ Implementing DNS.

Lesson

● **Linux Administering**

○ Introduction to Linux

Lesson

○ Installing Linux

Lesson

○ Familiarizing Yourself with Linux.

Lesson

○ Managing User and Group Accounts.

Lesson

○ Managing Partitions and the Linux File system.

Lesson

○ Managing Files in Linux.

Lesson

○ Working with Linux Permissions and Ownership.

Lesson

○ Managing Packages.

Lesson

○ Proxy Server.

Lesson

● **Cloud Management**

○ Cloud Provisioning and Administration

Lesson

○ Cloud Bursting & Cloud Interoperability.

Lesson

○ Strategic policy design for cloud usage and compliance.

Lesson

○ Disaster Recovery and Business Continuity strategies for Cloud

Lesson

○ Performance Measures, Monitoring and Optimization in Production.

Lesson

○ Cloud Security Fundamentals

Lesson

○ IaaS: Cloud Infrastructure Benchmarking.

Lesson

○ IaaS: Workload Definition

Lesson

○ PaaS Cloud Broker Platforms.

Lesson

○ SaaS: Multi-Tenant Data Management