**Course Code: CIS128**
**Course Name: Configuring Advanced Windows Server 2012**
**Certification: MCSA Configuring Advanced Windows Server 2012 – 70-412**
**Duration: 3 months**
**Tuition: $1895.00**

**Course Overview**

This course covers the configuration and management of the advanced functions of Windows Server 2012. This course deals specifically with the configuration of advanced network services in Windows Server 2012. Among the subjects covered are NLB & clustering, VM clusters & DR, storage, forests & domains, file management and DAC, DHCP, DNS, IPAM, site replication, PKI, RMS & federation and more.

**Course Content**

- **Lesson 1 –HA**
  This lesson covers the following topics:
    o Network Load Balancing
    o Configuring a NLB Cluster
    o Managing a NLB Cluster
    o Failover Clustering
    o Creating a Failover Cluster
    o Managing a Failover Cluster
    o Maintaining a Cluster

- **Lesson 2 –VMs and DR**
  This lesson covers the following topics:
    o Clustering with Hyper-V
    o Hyper-V Host Clusters
    o Configuring Guest Clustering
    o Virtual Machine Movement
    o Managing VM's using SCVMM
    o Disaster Recovery and Backup
    o Using Backup and Online Backup
    o Recovering Servers
    o Shadow Copies

- **Lesson 3 –Storage**
  This lesson covers the following topic:
    o Windows Server 2012 R2 iSCSI Overview
    o Configuring iSCSI
    o iSNS

       o   BranchCache
       o   Optimizing Storage


- **Lesson 4 –AD Domains**
  This lesson covers the following topic:
  - AD Infrastructure, Domains and Forests
  - Domain and Forest Interoperability
  - Trust Relationships
  - Managing Trust Relationships


- **Lesson 5 –DAC**
  This lesson covers the following topics:
  - File Management using FSRM
  - Implementing FCI with FSRM
  - Dynamic Access Control
  - Deploying DAC
  - Central Access Policies


- **Lesson 6 –DHCP & DNS**
  This lesson covers the following topics:
  - Advanced DHCP Features
  - High Availability DHCP
  - Managing and Optimizing DNS
  - Securing DNS
  - IPAM Overview
  - IPAM


- **Lesson 7 –AD Replication**
  This lesson covers the following topic:
  - AD DS Replication
  - Active Directory Sites
  - AD Sites and Replication
  - RODC Replication
  - Monitoring Replication


- **Lesson 8 –PKI**
  This lesson covers the following topics:
  - PKI Overview
  - AD CS Installation
  - Managing Revocation
  - Certificate Templates

- o Enrollments
- o PKI Administration

- **Lesson 9 –Federation**
  This lesson covers the following topics:
  - o Active Directory (AD) Rights Management Services (RMS) Overview
  - o Implementing AD RMS
  - o Protecting Content with Windows Server 2012 R2 AD RMS
  - o AD FS Overview
  - o Installing AD FS
  - o AD FS Authentication