

**ICT and Security Management**

# Microsoft Server Management

Prepared as a professional course profile for delegate review, sponsorship approval and organisational training planning.

COURSE CODE

**MSD2651**

DELIVERY

**Online / Face-to-Face**

DURATION

**Flexible**

PREPARED FOR

**Organisation Approval**[Register for this Course](#)[View Online Course Page](#)

## Course Overview

The enterprise computing landscape is constantly changing and posing new challenges in server administration. Windows Server 2012 provides a strong foundation that addresses existing and new administrative challenges. In this course, you gain the practical experience needed to administer, secure and troubleshoot the Windows Server 2012 OS in an enterprise environment.

At the heart of the Microsoft Cloud Platform vision, Windows Server brings Microsoft's experience delivering global-scale cloud services into your infrastructure with features and enhancements in virtualization, management, storage, networking, virtual desktop infrastructure, access and information protection, the web and application platform, and more.

With Windows Server you can scale to run your most important workloads with robust recovery options. You'll achieve value quickly with a wide range of cost-effective, high-performance storage options and simplified delivery of multi-tenant IT services. You can build, deploy, operate, and monitor applications on premises and in the cloud. Empower users with secure access to corporate resources on the devices they choose..

## Course Outcomes

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- Administer, secure and troubleshoot Windows Server 2012 R2
- Configure a Branch Office Server
- Secure servers using the Windows Firewall, Group Policy and Dynamic Access Control
- Diagnose and repair system failures with recovery environments
- Build a high-availability environment

# Course Outline / Curriculum

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## Employing Administration Tools

### Managing the server

- Installing roles with Server Manager
- Configuring functionality with PowerShell

### Enabling remote administration

- Identifying barriers to remote management
- Employing Group Policies to overcome issues
- Implementing Windows Remote Management
- Tuning the Windows Firewall
- Making use of Server Manager groups

### Administering with PowerShell

- Managing Local and Remote Servers
- Leveraging the scripting capabilities of PowerShell

### Deploying Server Core

- Reviewing the features and benefits of Server Core
- Preparing for a production environment
- Administering the core remotely
- Determining the most effective scenario for deployment
- Securing Windows Server 2012 R2

### Defining security components

- Analyzing role-based security
- Testing Dynamic Access Control
- Safeguarding the server with the Windows Firewall

### Building security policies

- Documenting server security
- Composing optimal Group Policies

### Auditing the server

- Diagnosing security issues
- Creating an audit trail
- Filtering the security log
- Optimizing Server Performance

## **Assessing workloads**

- Balancing applications and server roles
- Evaluating hardware and software components
- Reconfiguring the operating system

## **Monitoring server performance**

- Analyzing system behavior with Resource Monitor
- Establishing baselines with Performance Monitor
- Designing Data Collector Sets

## **Detecting and resolving performance concerns**

- Identifying Performance Monitor counters
- Solving the challenge of memory leaks
- Exploring the effect of services on server performance
- Troubleshooting Windows Server 2012 R2

## **Recovering from boot process failures**

- Breaking down the pre-Windows boot process
- Appraising the Windows load sequence

## **Selecting the appropriate recovery environments**

- Booting to the recovery console
- Leveraging WinRE to correct the problem

## **Repairing key Windows components**

- Maintaining a stable registry
- Managing service accounts and privileges
- Identifying faulty drivers
- Solving network issues

## **Extracting information from the Event Viewer**

- Collecting events from remote servers
- Attaching subscriptions to selected events
- Implementing a High-Availability Environment

## **Windows in the cloud**

- Preparing Windows features for the cloud
- Producing a disaster recovery plan
- Scheduling Windows backups

### **Clustering Windows servers**

- Meeting failover clustering requirements
- Recognizing the role of Quorums

### **Virtualizing servers**

- Increasing scalability potential with Hyper-V
- Speeding up recovery with replicas
- Maintaining high availability with live migration

## **Target Audience**

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Microsoft Server Management

## **Key Course Benefits**

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### **Work-Ready Skills**

Delegates leave with practical tools, templates and methods they can apply immediately at work.

### **Better Institutional Results**

The programme supports stronger planning, reporting, compliance, accountability and service delivery.

### **Sponsor-Friendly**

This document is designed to help supervisors, HR units and sponsors approve delegate participation quickly.

### **Professional Recognition**

Delegates receive training documentation and a certificate of completion after successful participation.

## Our Training Centres & Delivery Options

Magna Skills offers flexible delivery through face-to-face training centres across Africa and beyond, plus Online / E-Learning for delegates who prefer remote participation.

### Southern Africa

Practical training destinations with strong travel access and delegate support.

Pretoria, South Africa

Vic Falls, Zimbabwe

Livingstone, Zambia

### East Africa

Popular regional centres for government, NGO and donor-funded project teams.

Kigali, Rwanda

Kampala, Uganda

Nairobi,

Zanzibar, Tanzania

### West Africa & Islands

Strategic locations for regional networking and executive capacity building.

Accra, Ghana

Port Louis, Mauritius

### International Executive Venue

Premium destination training for senior teams and international delegates.

Dubai, United Arab Emirates

### Online / E-Learning

Attend from anywhere through live online, blended or self-paced learning options.

Online, E-Learning

Remote Teams

Flex

### Organisation-Based Training

Magna Skills can also arrange dedicated in-house training for ministries, NGOs and companies.

Onsite

Custom Dates

Group Training

## Ready to Nominate Delegates?

Use the links below to register, review the live course page or contact Magna Skills for organisation-based training support.

[Register / Apply Online](#)

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## About Magna Skills

Magna Skills Development Institute provides practical capacity building programmes for government departments, NGOs, public institutions, donor-funded projects and private sector professionals across Africa. Our training approach combines expert facilitation, real workplace case studies, practical tools, post-training support and professional documentation that helps organisations strengthen staff performance and service delivery.

Government Training

NGO Capacity Building

Corporate Workshops

Online Learning

Face-to-Face Training

Certifica

## Approval & Authorisation Form

This section may be completed by the organisation, department, HR office, finance office or sponsor approving delegate participation. It can be attached to an internal memo, procurement request or training approval submission.

<b>Organisation / Department</b>	
<b>Delegate Name(s)</b>	
<b>Approved Course</b>	Microsoft Server Management
<b>Preferred Delivery Mode</b>	<input type="checkbox"/> Online <input type="checkbox"/> Face-to-Face <input type="checkbox"/> Organisation-Based Training
<b>Preferred Training Venue / Date</b>	
<b>Estimated Number of Delegates</b>	
<b>Budget / Vote Number</b>	
<b>Contact Person</b>	
<b>Email / Mobile</b>	

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Authorised Name

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Signature / Stamp

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Date