MAGNA SKILLS DEVELOPMENT INSTITUTE

Capacity Building • Professional Training • Organisational Development

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Course Profile Document

ICT and Security Management

Microsoft Server Management

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

COURSE CODE	DELIVERY	DURATION	PREPARED FOR
MSD2651	**Online / Face-to-Face**	**Flexible**	**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

- 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

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

Miscrosoft Server Management

Key Course Benefits

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 | **View Full Course Page**

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.

Organisation / Department	
Delegate Name(s)	
Approved Course	Microsoft Server Management
Preferred Delivery Mode	☐ Online ☐ Face-to-Face ☐ Organisation-Based Training
Preferred Training Venue / Date	
Estimated Number of Delegates	
Budget / Vote Number	
Contact Person	
Email / Mobile	

Authorised Name _____ Signature / Stamp _____ Date _____