MAGNA SKILLS DEVELOPMENT INSTITUTE

Capacity Building • Professional Training • Organisational Development

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Course Profile Document

ICT and Security Management

Linux Server Management

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

COURSE CODE	DELIVERY	DURATION	PREPARED FOR
MSD2654	**Online / Face-to-Face**	**Flexible**	**Organisation Approval**

Register for this Course

View Online Course Page

Course Overview

The Linux Server Management course offered by Magna Skills is designed to equip individuals with the knowledge and skills required to effectively manage and maintain Linux servers in a professional IT environment. Linux is a popular choice for server operating systems due to its stability, security, and versatility. This course will provide participants with a comprehensive understanding of Linux server administration, enabling them to confidently handle server tasks, troubleshoot issues, and optimize server performance.

Course Outcomes

By the end of the Linux Server Management course, participants will:

1. Gain a solid understanding of the Linux operating system, its architecture, and its role in server environments.
2. Master essential server management tasks, including user and group management, file system operations, and process management.
3. Learn how to install, configure, and secure various server applications and services commonly used in Linux environments.
4. Develop the skills to monitor server performance, diagnose and resolve issues, and implement best practices for server optimization.
5. Understand the importance of server security and learn how to implement security measures to protect server resources and data.
6. Gain hands-on experience with popular Linux server distributions such as Ubuntu Server and CentOS/RHEL.
7. Prepare for professional certifications like CompTIA Linux+ or Red Hat Certified System Administrator (RHCSA).

Course Outline / Curriculum

Module 1: Introduction to Linux Server Management

- Overview of Linux and its role in server environments
- Linux distributions for servers
- Installation and initial configuration of a Linux server

Module 2: Linux Fundamentals for Server Administrators

- Command-line basics
- File system management and navigation
- User and group management
- Permissions and security

Module 3: Server Services and Applications

- Setting up a web server (Apache or Nginx)
- Configuring a database server (MySQL/MariaDB or PostgreSQL)
- Email server setup (Postfix and Dovecot)
- DNS server configuration (Bind9)

Module 4: Server Security

- Understanding server security concepts
- Firewalls and network security
- SSH and remote access security
- Implementing SSL/TLS certificates

Module 5: Server Monitoring and Optimization

- Performance monitoring and analysis
- Troubleshooting common server issues
- Backup and recovery strategies
- Server maintenance and updates

Module 6: Advanced Topics

- Virtualization with KVM or Docker
- Server automation with shell scripting (Bash)
- High availability and load balancing
- Introduction to cloud-based server management (AWS, Azure, or GCP)

Module 7: Preparation for Certification

- Review of key concepts and skills
- Practice exams and certification guidance

Target Audience

Linux 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
- Nairob
- 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
- Flexib

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	Linux Server Management
Preferred Delivery Mode	☐ Online ☐ Face-to-Face ☐ Organisation-Based Training
Preferred Training Venue /Date	
Estimated Number ofDelegates	
Budget / Vote Number	
Contact Person	
Email / Mobile	

Authorised Name _____ Signature / Stamp _____ Date _____