MAGNA SKILLS DEVELOPMENT INSTITUTE

Capacity Building • Professional Training • Organisational Development

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Course Profile Document

ICT and Security Management

Cisco Devices Management

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

COURSE CODE	DELIVERY	DURATION	PREPARED FOR
MSD2644	**Online / Face-to-Face**	**Flexible**	**Organisation Approval**

Register for this Course

View Online Course Page

Course Overview

This intensive hands-on course by **Magna Skills** is designed to equip IT professionals, network engineers, and systems administrators with the practical knowledge and skills required to manage Cisco network devices effectively. Covering both fundamental and advanced aspects of Cisco device configuration and troubleshooting, the course ensures participants gain the confidence to implement and maintain secure, efficient, and scalable networks.

Whether you're preparing for certification or managing real-world infrastructure, this course offers the practical tools needed to administer routers, switches, and Cisco IOS environments. Delivered by certified instructors with real-world expertise, the training combines theory, labs, and case studies to ensure maximum impact.

Course Outcomes

- By the end of this course, participants will be able to:

1. Understand and configure Cisco routers and switches for small to medium enterprise networks.
2. Perform initial setup, basic configuration, and secure access to Cisco devices.
3. Implement VLANs, inter-VLAN routing, and basic IP routing on Cisco switches and routers.
4.

Monitor and troubleshoot Cisco devices using CLI commands and network tools.

5. Apply security best practices to protect Cisco devices from unauthorized access.

Course Outline / Curriculum

- **Introduction to Cisco Networking Devices**
  - Overview of Cisco device families (routers, switches, firewalls)
  - Licensing models and IOS software versions
- **Cisco Device Initialization and Configuration**
  - Device boot process and IOS navigation
  - Setting up device hostname, passwords, and interfaces
- **Managing Cisco IOS Software**
  - Upgrading IOS and backing up configurations
  - Using TFTP, FTP, and USB for file management
- **VLANs and Inter-VLAN Routing**
  - Creating and assigning VLANs
  - Configuring trunk ports and VLAN routing
- **IP Addressing and Routing**
  - Static routing configuration
  - Understanding and applying dynamic routing protocols (RIP, OSPF basics)
- **Device Security Configuration**
  -

- Securing console and remote access (Telnet/SSH)
- Configuring ACLs (Access Control Lists)

- **Network Address Translation (NAT)**
  - Static and dynamic NAT configuration
  - NAT troubleshooting

- **Switch Management and STP**
  - Managing MAC address tables
  - Configuring Spanning Tree Protocol (STP) for redundancy

- **Monitoring and Troubleshooting Tools**
  - Using Cisco CLI commands for diagnostics
  - Debugging and logging tools for real-time monitoring

- **Backup, Recovery and Best Practices**
  - Backing up configurations and IOS
  - Restoring factory settings and applying best practices for device health

Target Audience

This hands-on Cisco router training workshop is perfect for experienced network administrators, engineers, and technicians who are just now starting to work with Cisco routers, for network-savvy business people who need to learn the lingo, for CCNA and CCENT candidates looking for hands-on experience, for teachers and instructors wanting to brush up on technical training skills, and anyone who needs to better understand the most widely used routers in the world

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	Cisco Devices 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 _____