MAGNA SKILLS DEVELOPMENT INSTITUTE

Capacity Building • Professional Training • Organisational Development

Generated: 11-Nov-2026

Course Profile Document

Procurement and Supply Chain Management

Cyber Security

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

COURSE CODE	DELIVERY	DURATION	PREPARED FOR
MSD2824	**Online / Face-to-Face**	**Flexible**	**Organisation Approval**

Register for this Course **View Online Course Page**

Course Overview

Every organization is responsible for ensuring cybersecurity. The ability to protect its information systems from impairment or even theft is essential to success. Implementing effective security measures will not only offer liability protection; it will also increase efficiency and productivity

With our “Cybersecurity” workshop, participants will discover the fundamentals of cybersecurity as well as the methods that should be implemented to make sure their computer systems are protected.

In this course, participants will be introduced to real-world cybersecurity challenges that organisations face, and learn to apply knowledge and skills. The challenges will be examined both from the attacker's perspective (how systems are exploited) and the defender's perspectives (how to secure systems or respond to threats).

Common attack and defence strategies for software, web applications, networks, operating systems, cryptographic systems and humans will be explored. The course will also introduce cyber security management concepts, including security operations, risk management, security engineering and security architecture, as well as provide guidance on different career paths specialising in cybersecurity. This course focuses on hand-on activities, and participants are encouraged to participate in public and industry cybersecurity challenges, including capture-the-flag competitions.

Course Outcomes

- Understand different types of malware and security breaches
- Know the types of cyberattacks to look out for
- Develop effective prevention methods
- Describe career paths in cybersecurity and corresponding required skills, certifications and aptitudes.
- Demonstrate ability to undertake basic security assessment, including vulnerability scanning and network/web penetration testing.
- Describe the role of an information security in an organisation, and main components of information security management frameworks to effectively manage risks.
- Demonstrate basic skills in computer forensic analysis, including binary file analysis and reverse engineering.

Course Outline / Curriculum

Module One: Getting Started

- *Workshop Objectives*

Module Two: Cybersecurity Fundamentals

- *What is Cyberspace?*
- *What is Cybersecurity?*
- *Why is Cybersecurity Important?*
- *What is a Hacker?*
- *Case Study*
- *Module Two: Review Questions*

Module Three: Types of Malware

- *Worms*
- *Viruses*
- *Spyware*
- *Trojans*
- *Case Study*
- *Module Three: Review Questions*

Module Four: Cyber Security Breaches

- *Phishing*
- *Identity Theft*
- *Harassment*
- *Cyber Stalking*
- *Case Study*
- *Module Four: Review Questions*

Module Five: Types of Cyber Attacks

- *Password Attacks*
- *Denial of Service Attacks*
- *Passive Attack*
- *Penetration Testing*
- *Case Study*
- *Module Five: Review Questions*

Module Six: Prevention Tips

- *Craft a Strong Password*

Two-Step Verification

- *Download Attachments with Care*
- *Question Legitimacy of Websites*
- *Case Study*
- *Module Six: Review Questions*

Module Seven: Mobile Protection

- *No Credit Card Numbers*
- *Place Lock on Phone*
- *Don’t Save Passwords*
- *No Personalized Contacts Listed*
- *Case Study*
- *Module Seven: Review Questions*

Module Eight: Social Network Security

- *Don’t Reveal Location*
- *Keep Birthdate Hidden*
- *Have Private Profile*
- *Don’t Link Accounts*
- *Case Study*
- *Module Eight: Review Questions*

Module Nine: Prevention Software

- *Firewalls*
- *Virtual Private Networks*
- *Anti-Virus & Anti-Spyware*
- *Routine Updates*
- *Case Study*
- *Module Nine: Review Questions*

Module Ten: Critical Cyber Threats

- *Critical Cyber Threats*
- *Cyberterrorism*
- *Cyberwarfare*
- *Cyber espionage*
- *Case Study*
- *Module Ten: Review Questions*

Module Eleven: Defense Against Hackers

- *Cryptography*
- *Digital Forensics*
- *Intrusion Detection*
- *Legal Recourse*
- *Case Study*
- *Module Eleven: Review Questions*

Module Twelve: Wrapping Up

- Words from the Wise

Target Audience

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	Cyber Security
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 _____