

## Cyber Security Course Details

Department: Procurement & Supply Chain Management

Presented by Magna Skills Development Institute

[Registration Link](#)

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## Course Summary

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 Objectives

- 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

### 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*



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## Company Overview

**Who We Are:** Magna Skills is a premier training and capacity-building organization specializing in professional development for government institutions, NGOs, and the private sector.

**Our Mission:** To provide world-class training solutions that equip professionals with the expertise needed to excel in their careers and contribute meaningfully to their organizations.

**Our Vision:** To be the leading provider of professional training and development across Africa, fostering excellence, innovation, and capacity-building in public and private sectors.

## Core Values

- **Excellence** – Delivering high-quality training tailored to meet the evolving needs of professionals.
- **Integrity** – Upholding the highest ethical standards in all our engagements.
- **Innovation** – Embracing new technologies and methodologies to enhance learning experiences.
- **Customer-Centric Approach** – Ensuring client satisfaction by providing relevant, practical, and impactful training.
- **Collaboration** – Partnering with industry experts and institutions to provide the best learning opportunities.

## Our Training Methodology

We use a blended learning approach that includes instructor-led training, case studies, workshops, and post-training support.

## Why Choose Magna Skills?

- Experienced Trainers
- Customized Training Solutions
- Interactive Learning
- Global Recognition
- Proven Track Record

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Email:	Training Method: Online[ ____ ] Face to Face [ ____ ]
Company Name:	Duration:
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By signing this agreement, both parties confirm their commitment to the terms outlined in this proposal.