MAGNA SKILLS DEVELOPMENT INSTITUTE

Capacity Building • Professional Training • Organisational Development

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Course Profile Document

ICT and Security Management

Certified Ethical Hacker(CEH)

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

COURSE CODE	DELIVERY	DURATION	PREPARED FOR
MSD2842	**Online / Face-to-Face**	**Flexible**	**Organisation Approval**

Register for this Course

View Online Course Page

Course Overview

The Certified Ethical Hacker (CEH) course offered by Magna Skills is a comprehensive and hands-on training program designed to equip individuals with the skills and knowledge required to identify, exploit, and mitigate vulnerabilities in computer systems, networks, and applications. This course is perfect for IT professionals, security analysts, network administrators, and anyone interested in understanding the tools and techniques used by malicious hackers in order to strengthen organizational cybersecurity defenses.

Course Outcomes

By the end of this course, participants will:

- Understand the ethical hacking process and its importance in modern cybersecurity.
- Learn various hacking techniques and tools used by malicious actors.
- Gain practical experience in performing penetration testing and vulnerability assessment.
- Develop skills to identify and assess system vulnerabilities, weaknesses, and threats.
- Learn how to secure networks, systems, and applications against cyber threats.
- Understand the legal and ethical considerations of ethical hacking.
- Prepare for the Certified Ethical Hacker (CEH) certification exam.

Course Outline / Curriculum

Module 1: Introduction to Ethical Hacking

- Understanding ethical hacking and its scope
- Types of hackers and their motivations
- The hacking lifecycle and phases

Module 2: Footprinting and Reconnaissance

- Gathering information using passive and active techniques
- Social engineering tactics for information gathering
- Tools and resources for footprinting

Module 3: Scanning and Enumeration

- Network scanning techniques and tools
- Enumerating network resources and services
- Banner grabbing and SNMP enumeration

Module 4: System Hacking

- Password cracking and techniques
- Escalating privileges and gaining unauthorized access
- Hiding files and covering tracks

Module 5: Malware Threats

- Types of malware: viruses, worms, Trojans, and more
- Malware analysis and reverse engineering basics
- Detecting and removing malware infections

Module 6: Network Sniffing and Analysis

- Packet sniffing concepts and tools
- Analyzing network traffic for vulnerabilities
- Securing against network-based attacks

Module 7: Social Engineering

- Psychology of social engineering attacks
- Phishing, pretexting, tailgating, and baiting techniques
- Creating a strong security awareness program

Module 8: Web Application Security

- Common web application vulnerabilities (SQL injection, XSS, CSRF, etc.)
- Testing web applications for security flaws
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Securing web applications and APIs

Module 9: Wireless Network Security

- Wireless encryption and authentication protocols
- Wi-Fi vulnerabilities and attacks
- Securing wireless networks and devices

Module 10: Cryptography

- Basics of cryptography and encryption algorithms
- Digital signatures and certificates
- Cryptanalysis techniques and attacks

Module 11: Cloud Security

- Cloud computing models and security concerns
- Securing cloud environments and data
- Cloud-specific vulnerabilities and best practices

Module 12: Incident Response and Recovery

- Developing an incident response plan
- Investigating and containing security breaches
- Business continuity and disaster recovery strategies

Module 13: Legal and Ethical Considerations

- Laws and regulations related to hacking and cybersecurity
- Ethical guidelines for ethical hackers
- Reporting vulnerabilities responsibly

Target Audience

Microsoft Publisher

Key Course Benefits

Work-Ready Skills

Delegates leave with practical tools, templatesand methods they canapply immediately atwork.

Better Institutional Results

The programme supports stronger planning, reporting, compliance, accountability andservice delivery.

Sponsor-Friendly

This document isdesigned to helpsupervisors, HR units andsponsors approve delegate participation quickly.

ProfessionalRecognition

Delegates receivetraining documentationand a certificate ofcompletion aftersuccessful 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	Certified Ethical Hacker(CEH)
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 _____