KOENIG SOLUTIONS · COURSE OUTLINE

Cybersecurity Basics: CIA Triad & Malware Defense

Learn to identify cyber risks, apply the CIA triad, and defend against malware, social engineering and security incidents.

16 Hours	9	30
DURATION	MODULES	TOPICS

COURSE OVERVIEW

This course opens with cybersecurity essentials for individuals and small organisations before introducing the CIA triad, the main types of cybersecurity, and the concepts of threats, vulnerabilities and controls. It covers risk identification and mitigation, relevant laws and data protection concepts, and the human factors behind social engineering. It then addresses privacy and online rights, common malware and attack techniques, attacker motivations and behaviour, and closes with security monitoring, incident response and backup planning.

WHO THIS COURSE IS FOR

- **Small Business Owners**
- **IT Support Staff**
- **Security Awareness Trainers**
- **Risk Coordinators**
- **Compliance Officers**
- **Incident Response Team Members**

LEARNING OBJECTIVES

- Explain the CIA triad and the main types of cybersecurity
- Identify common cyber risks facing individuals and small organisations
- Apply qualitative methods to assess and mitigate risk
- Describe key data protection and compliance concepts
- Recognise social engineering tactics and warning signs
- Identify common malware types such as viruses and ransomware
- Explain the basic attacker lifecycle from scanning to exploitation
- Plan a simple incident response and backup checklist

COURSE SYLLABUS

9 Modules, 30 Topics

00

Cybersecurity for Small Businesses

TOPICS

- Why cybersecurity matters for individuals and small organizations
- Common cyber risks faced by small entities
- Simple steps to improve digital safety on a budget

01

Cybersecurity Fundamentals

TOPICS

- **Core principles:** Confidentiality, Integrity, Availability (CIA triad)
- **Types of cybersecurity:** Network, Information, Physical, Endpoint
- Introduction to threats, vulnerabilities, and controls

02

Risk Management

TOPICS

- Basics of identifying and assessing risks
- Common threats and their impacts
- Risk mitigation approaches (qualitative methods)
- Creating a basic risk register (manual/spreadsheet-based)

03

Law / Regulation

TOPICS

- General understanding of cybersecurity-related laws
- **Key concepts:** data protection, breach, consent, data subject
- Importance of compliance in a digital environment

04

Human Factors

TOPICS

- Why people are a key part of security
- **Social engineering:** types and warning signs
- Tips to build personal and team-level cyber awareness

05

Privacy & Online Rights

TOPICS

- Importance of protecting personal information
- **Concepts:** digital footprint, cookies, device tracking
- Practical privacy tips for individuals and small teams

06

Malware & Attack Technologies

TOPICS

- **Common types of malware:** viruses, worms, ransomware, etc.
- Basic attack methods like phishing and spoofing
- How to recognize and avoid infection attempts
- Preventive measures using free tools and settings

07

Adversarial Behavior

TOPICS

- What motivates cyber attackers
- Overview of basic attack lifecycle (scanning to exploitation)
- How attackers commonly exploit human and technical gaps

08

Security Operations & Incident Management

TOPICS

- Introduction to monitoring and managing security
- Steps to take during and after a cyber incident
- Importance of backups and basic recovery planning
- Creating a simple incident response checklist

WHAT IS INCLUDED

Everything You Need to Succeed

- Koenig course material for every module
- Delivery by certified instructors and subject matter experts
- Hands-on exercises throughout the course
- Course completion certificate from Koenig

ABOUT KOENIG

Who We Are

Established in 1993, Koenig Solutions is a globally recognised training provider with 35+ technology partnerships, 5,000+ training programmes and a network of certified instructors and subject matter experts, supporting individuals and enterprise teams worldwide.

FLEXIBLE DELIVERY

Learn the Way That Suits You

Classroom Training | Live Online Classes (ILO) | Fly-Me-A-Trainer (FMAT) | Flexi (Self-Paced) | 1-on-1 Training

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