

SkillNexa Cybersecurity Academy

Cybersecurity Foundations

Introduction to Cybersecurity & Digital Protection

Program Level: Foundation

Total Duration: 96 Hours

Delivery: Cohort-Based + Instructor-Led + Hands-On Labs

Pathway: Foundation

Program Goal

Students develop a strong foundation in:

- Computer systems
- Networking fundamentals
- Cybersecurity concepts
- Ethical technology use
- Programming basics
- Digital safety practices

Program Structure Overview

Module	Topic	Hours
Module 1	Digital World & Cybersecurity Fundamentals	16 Hours
Module 2	Computer Systems Fundamentals	20 Hours
Module 3	Networking Fundamentals	24 Hours
Module 4	Programming Foundations for Cybersecurity	20 Hours
Module 5	Cyber Safety Capstone Project	16 Hours
Total		96 Hours

Course Curriculum

MODULE 1 — DIGITAL WORLD & CYBERSECURITY FUNDAMENTALS

1.1 Introduction to Cybersecurity

Lab Exercise 1.1

1.2 Digital Transformation & Cyber Risks

Lab Exercise 1.2

1.3 Cybersecurity Domains

Lab Exercise 1.3

1.4 Cyber Threats & Vulnerabilities

1.5 Common Cyber Attacks

Lab Exercise 1.5

1.6 Cyber Ethics & Responsible Computing

Lab Exercise 1.6

1.7 Cyber Laws & Privacy

Lab Exercise 1.7

1.8 Cybersecurity Careers

Lab Exercise 1.8

MODULE 1 ASSESSMENT

MODULE 2 — COMPUTER SYSTEMS FUNDAMENTALS

2.1 Computer Hardware Fundamentals

Lab Exercise 2.1

2.2 Operating Systems

Lab Exercise 2.2

2.3 Linux Command Line

Lab Exercise 2.3

2.4 User Accounts & Access Control

Lab Exercise 2.4

2.5 System Security Mini Project

MODULE 2 ASSESSMENT

MODULE 3 — NETWORKING FUNDAMENTALS

3.1 Internet Fundamentals

Lab Exercise 3.1

3.2 IP Addressing

Lab Exercise 3.2

3.3 TCP/IP Fundamentals

Lab Exercise 3.3

3.4 DNS, HTTP & HTTPS

Lab Exercise 3.4

3.5 Routers, Switches & Network Devices

Lab Exercise 3.5

3.6 Secure Home Network Project

MODULE 3 ASSESSMENT

MODULE 4 — PROGRAMMING FOUNDATIONS FOR CYBERSECURITY

4.1 Python Fundamentals

Lab Exercise 4.1

4.2 Decision Making & Logic

Lab Exercise 4.2

4.3 Loops & Automation

Lab Exercise 4.3

4.4 Functions & Debugging

Lab Exercise 4.4

4.5 Security Programming Project

MODULE 4 ASSESSMENT

MODULE 5 — CYBER SAFETY CAPSTONE

5.1 Digital Security Assessment

Lab Exercise 5.1

5.2 Personal Cybersecurity Plan

Lab Exercise 5.2

5.3 Cybersecurity Awareness Campaign

Lab Exercise 5.3

5.4 Cybersecurity Portfolio

5.5 Final Capstone — Secure Your Digital Life

MODULE 5 ASSESSMENT

FINAL COURSE ASSESSMENT