



CYBER SHIELD 101

Foundation in Cyber Security

Training Curriculum Overview

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INTAKE: MAY / DECEMBER

Course at a Glance

Cyber Shield 101 — Foundation in Cyber Security

Module 01

Cybersecurity & Linux

11 Topics

- Cybersecurity Basics
- Introduction to Security Domains
- Linux Fundamentals & File System
+ 7 more topics
- Basic Linux Commands

Module 02

Fundamentals of IT

7 Topics

- Introduction to Computing
- History of Computing
- Classification of Computers
+ 3 more topics
- Evolution of Technology

Module 03

Networking Basics

7 Topics

- Network Foundation & Topology
- OSI & TCP/IP Models
- IP Addressing & Subnetting
+ 3 more topics
- Transport & Application Protocols

Module 04

Python Programming

8 Topics

- Python Basics & Environment
- Control Flow & Decision Making
- Loops & Iteration
+ 4 more topics
- Functions & Scope

Module 05

Web Development Fundamentals

6 Topics

- The Anatomy of the Web
- HTML Content & Semantics
- CSS Fundamentals
+ 2 more topics
- Introduction to JavaScript (JS)

Module 06

Database Management

6 Topics

- Introduction to Databases
- Database Models
- Relational Database Concepts
+ 2 more topics
- Structured Query Language (SQL)

Pathway: Foundation (AION) › HND (PIBT Campus) › Degree (University of Greenwich)

01

MODULE

CYBERSECURITY & LINUX

11

Topics

Cybersecurity & Linux

Cyber Shield 101 — Foundation in Cyber Security

TOPICS COVERED

- 1 Cybersecurity Basics
- 2 Introduction to Security Domains
- 3 Linux Fundamentals & File System
- 4 Basic Linux Commands
- 5 Networking Fundamentals
- 6 Network Tools
- 7 Vulnerability Assessment Basics
- 8 Introduction to GRC
- 9 What is a SOC & How it Operates
- 10 Introduction to SIEM Tools
- 11 Log Analysis & Monitoring Basics

02

MODULE

FUNDAMENTALS OF IT

7

Topics

Fundamentals of IT

Cyber Shield 101 — Foundation in Cyber Security

TOPICS COVERED

- 1 Introduction to Computing
- 2 History of Computing
- 3 Classification of Computers
- 4 Evolution of Technology
- 5 Boot Process
- 6 Operating System Fundamentals
- 7 Software Concepts

03

MODULE

NETWORKING BASICS

7

Topics

Networking Basics

Cyber Shield 101 — Foundation in Cyber Security

TOPICS COVERED

- 1 Network Foundation & Topology
- 2 OSI & TCP/IP Models
- 3 IP Addressing & Subnetting
- 4 Transport & Application Protocols
- 5 Physical Media & Networking Devices
- 6 Network Security Fundamentals
- 7 Wireless & SOHO Networking

04

MODULE

PYTHON PROGRAMMING

8

Topics

Python Programming

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TOPICS COVERED

- 1 Python Basics & Environment
- 2 Control Flow & Decision Making
- 3 Loops & Iteration
- 4 Functions & Scope
- 5 Python Collections (Data Structures)
- 6 Strings & Built-in Methods
- 7 Error Handling & Debugging
- 8 File I/O & Basic Projects

05

MODULE

WEB DEVELOPMENT FUNDAMENTALS

6

Topics

Web Development Fundamentals

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TOPICS COVERED

- 1 The Anatomy of the Web
- 2 HTML Content & Semantics
- 3 CSS Fundamentals
- 4 Introduction to JavaScript (JS)
- 5 DOM Manipulation
- 6 Bootstrap Framework

06

MODULE

DATABASE MANAGEMENT

6

Topics

Database Management

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TOPICS COVERED

- 1 Introduction to Databases
- 2 Database Models
- 3 Relational Database Concepts
- 4 Structured Query Language (SQL)
- 5 Database Design Principles
- 6 Practical Tools & Applications