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FOUNDATION • LEVEL 1

Intro to Cyber

9

MODULES

253

LAB TASKS

108

CTF CHALLENGES

50

TOPICS

9

COURSE BOOKS

133

SLIDES

9 COURSE BOOKS INCLUDED



This program transforms absolute beginners into confident cyber students who can read a network and understand what it is telling them. You will start by mastering how computers count and store information, moving from binary and base conversion into IP addresses, DNS, and the services that make the internet work. From there, the focus shifts to finding what is already exposed, using Shodan, WHOIS and advanced Google searching, alongside the encoding and hashing that hide and verify data. The journey concludes with real network traffic, where you will dissect live captures with Command Prompt and Wireshark and follow a packet layer by layer through the OSI model, giving you the foundation every other cyber program builds on.

CURRICULUM & WHAT EACH MODULE COVERS

MODULE	TASKS
01 Numeral Systems Solving for Unknown Binary Digits · Data Transfer Rate Calculations · Digital Storage Fundamentals · +2 more	31
02 IP Addresses IPv4 Address Structure and Binary · IPv4 Address Classes · Special-Use IPv4 Addresses · +5 more	36
03 Network Services DNS – Translating Domain Names to IP Addresses · Inspecting Live Network Connections and Services · Networking Ports and Protocols Fundamentals · +2 more	38
04 CMD Commands Reading and Navigating CMD Transcripts · System Information and Process Management · MAC Addresses and Hardware Identification · +4 more	33
05 OSINT Shodan: Searching the Internet of Things · WHOIS and Domain Registration Records · IP Address Attribution · +2 more	19
06 Google Google Dorking for Exposed Devices and Admin Panels · Applying Dorks to Discover Sensitive Data · Controlling Search Engine Crawlers — robots.txt · +2 more	22
07 Hash and Encoding Number Systems and Base Conversion · Base64 Encoding · Cryptographic Hashing	25
08 Network Traffic Network Addressing in Captured Traffic · Name Resolution and File-Sharing Protocols · Transport Layer and Port-Based Analysis · +3 more	20
09 OSI Model Protocol Data Units (PDUs) and Encapsulation · Data Link Layer · Session, Presentation, and Application Layers · +3 more	29

GOOD TO KNOW

Starts from zero — no prior experience needed · Runs in the browser — nothing to install · Self-paced or trainer-led · Cy, the AI helper, answers in the student's own language

HOW EVERY MODULE RUNS

Lab	→	Extra at 80%	→	Timed test at 85%	→	Slides at 90%
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A REAL TASK FROM MODULE 5 — OSINT

"Access [dnsdumpster.com](#) and identify the first subdomain listed for the domain [johnbryce.co.il](#)."

Finish with a capstone project · interview preparation · City & Guilds Assured certificate

DATA AS OF 2026-10-12 · V261012