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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



Having traversed the digital landscape, students delved into the complexities of computer networks, decoding the intricacies of IP addresses, common protocols, and DNS. This provided a solid foundation for understanding the operation of digital networks. They also engaged hands-on with cybersecurity tools like Shodan and explored various encoding techniques, unmasking the vulnerability of digital data and developing strategies to secure it. Further, they dissected network traffic using Command Prompt and Wireshark, becoming familiar with key communication models and honing their skills in effective data interpretation.

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



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 2026-09-30 · V260930