CYBERIUM
SIMULATOR

XE107

FOUNDATION · LEVEL 1

Web Fundamentals

5
MODULES

204
LAB TASKS

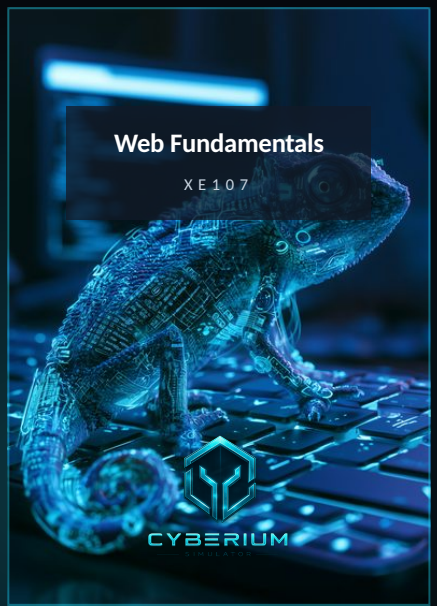
60
CTF CHALLENGES

39
TOPICS

5
COURSE BOOKS

89
SLIDES

5 COURSE BOOKS INCLUDED



This program transforms students into web-savvy security professionals by exploring the entire lifecycle of a website. You will start by mastering the "language of the web"—HTTP protocols and status codes—to understand how data travels between users and servers. From there, you'll move into frontend development, using HTML, CSS, and SVG to build and style secure interfaces while learning to manage user data safely through cookies. The journey continues into interactivity and server-side logic, where you will master JavaScript and PHP, before concluding with SQL database management. By the end of the course, you'll have a robust foundation in full-stack development, viewed through the critical lens of cybersecurity.

CURRICULUM & WHAT EACH MODULE COVERS

	MODULE	TASKS
01	**HTTP** Capturing and Analyzing Traffic with Wireshark · Command-Line Web Requests: Curl and Wget · Browser Developer Tools (Inspect) · HTTPS and TLS · Cookies, Sessions, and Caching · *+1 more*	49
02	**HTML** HTML Forms and Data Submission · HTML Injection and Reflected Content · Capturing Form Submissions with Netcat · Investigating a Downloaded Website's Source Code · HTML Document Fundamentals · *+4 more*	40
03	**JavaScript** The DOM — Selecting and Modifying Elements · Variables, Data Types, and Type Conversion · Variable Scope and Loops · JavaScript Functions · Event Handling · *+1 more*	46
04	**PHP** Handling HTML Forms and HTTP Methods · Variables and Data Types in PHP · Conditional Logic and Comparison in PHP · Input Validation and Output Safety · Executing Shell Commands from PHP · *+5 more*	29
05	**SQL** Exploring Real-World Databases and Large Text Types · Combining Query Results with UNION · Creating and Managing Databases · Creating and Managing Tables · Inserting and Retrieving Data · *+3 more*	40

GOOD TO KNOW

Starts from zero — no prior experience needed · 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%

> **A REAL TASK FROM MODULE 3 — JAVASCRIPT**
>
> *"In Exercise-8, go to the Feedback page and inject alert('Hack') using the feedback input. After submission, inspect the generated div element. Identify the content you see inside."*

Finish with a capstone project · interview preparation

DATA AS OF 2026-10-12 · V261012