

# Introduction to Advanced Real World Ethical Hacking Courses

For CISOs, Red-Team, and Ethical Hacking  
Professionals



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## About the Courses

This course provides you with the knowledge and training needed to understand cybersecurity, cybercriminals, and real-world hacking techniques “Black” hackers use. In addition, the students will learn the methods used and the motives behind attacks.

The students (s) will gain insight into the cybercriminal mind, motives, tools, and techniques for anyone pursuing a cybersecurity career.

This technical course brings together Infrastructure Web Application Attacks into two-day “Art of Hacking” online classes designed to teach hacking fundamentals. In this course, you will go through a multitude of web application hacking topics, all accompanied by demos and hands-on lab work.



## ✓ Who should attend

- System administrators who are interested in learning how to exploit website vulnerabilities
- Web Developers who want to find and exploit common web application vulnerabilities
- Network Engineers who want to secure and defend their network infrastructure from malicious attacks
- Security Enthusiasts new to the information security field and who wants to learn the art of ethical hacking
- Security consultants looking to relearn and refresh their foundational knowledge

## ✓ Pre-Requirements:

There are no official prerequisites, but we recommend that candidates have a basic understanding of Information Security principles. Also, knowledge of programmings such as PHP, ASP.NET, Python, or any programming helps better learning.

A basic familiarity with Windows operating systems and working with the software.

- **Hardware Requirements:**

Students should have laptops with an internet connection and administrative access to perform privileged tasks such as installing and modifying OS and software, etc.

- **Software Requirements:**

Windows 7, 10, or 11 operating systems are recommended for the course. Students will be required to install Burp Suite, Java Runtime environment, Python, and Mozilla Firefox browser.

Students will be given installation instructions before the first day of class.

## ✓ Course Syllabus

### Day 1

- Installing tools
- Understanding the HTTP protocol
- Cross-Site Scripting (XSS)
- Cross-Site Request Forgery (CSRF)
- SQL Injection
- XML External Entity (XXE) Attacks
- Insecure File Uploads

### Day 2

- Server-side template injection
- Understanding the HTTP protocol
- Insecure Deserialization attacks
- HTTP Request Smuggling Attacks
- Web Cache Poisoning Attacks
- IDOR Attacks

## ✓ Completion of this course will provide the student with experience in the following:

- Discovery and fingerprinting of web application infrastructure
- Be able to discover and exploit Web Application vulnerabilities
- Use Burp Suite to address vulnerabilities in a website
- Hacking databases and infrastructure of websites and Content Management Systems and gain access to customer data
- Conduct client-side attacks and execute code on the victims machine

## ✓ Course completion

The student will receive a certificate upon the completion of the course.