

# Application Security

## Welcome to the course!

In an era dominated by digital technologies and interconnected applications, the need for robust cybersecurity measures has never been more critical. "Application Security Testing for Absolute Beginners" is an entry-level course tailored to individuals with minimal prior experience in the ecosystem of application security.

Application Security Testing (AST) is a proactive approach that focuses on identifying and mitigating vulnerabilities within software applications to safeguard against potential cyber threats. In this course, participants will grasp the foundational principles and practical techniques associated with securing applications from malicious exploits.

Explore the significance of application security, gaining insights into the various threats and vulnerabilities that modern applications face. Understand the intricacies of web applications, dive into the fundamentals of secure coding practices, and become familiar with the tools and methodologies used in the field of security testing.

This course is designed to take you from the basics of web architecture to a comprehensive understanding of application security, culminating in hands-on labs covering multiple attack vectors.

So, join us and empower yourself to contribute to the creation of secure and resilient digital ecosystems.

### Module 1

- Web Architecture

### Module 2

- Introduction to Application security

### Module 3

- Common Tools used for Security Testing
- Vulnerability Assessment
- Broken Access Control
- Broken Authentication Vulnerability
- Cross Site Scripting (XSS)
- SQL Injection

### Module 4

- A01:2021-Broken Access Control
- A02:2021-Cryptographic Failures
- A03:2021-Injection
- A04:2021-Insecure Design
- A05:2021-Security Misconfiguration
- A06:2021-Vulnerable and Outdated Components
- A07:2021-Identification and Authentication Failures
- A08:2021-Software and Data Integrity Failures
- A09:2021-Security Logging and Monitoring Failures
- A10:2021-Server-Side Request Forgery

### Module 5

- Conclusion