



In Web Application Security training, we shall learn about web application security, web application attacks and ways to protect against incoming threats in the manner of virtual hands-on training. This is a paid training with ***subject to HRDF claim** for qualified HRDF contributing companies.

The Combat of Web Application: Hacker vs Developer

Day 1: 9am to 1pm

Day 2: 9am to 1pm

Day 2: 2pm to 4pm (optional – mentoring session)

Duration: 8 hours (4 hours a day) plus 2 hours mentoring session (optional)

Platform: Microsoft Teams Meeting

Course fee: **RM700 (*subject to 6% SST)**

The Combat of Web Application Course Outline

Day 1 – Module 1 to 5

Module 1: Introduction to Web Application Penetration Testing

- 1.1 Introduction to Information Security
- 1.2 Penetration Testing and its Necessity
- 1.3 Different Stages of Penetration Testing
- 1.4 Learn to do Penetration Testing
- 1.5 Cyber Law against Hacking
- 1.6 Introduction to OWASP Top 10 Web Application Risks

Module 2: Web Application Architecture & Development

- 2.1 Typical Web Application Architecture
- 2.2 Designing a Sample Webpage
- 2.3 Fundamental Web Application Security

Module 3: HTTP Basics

- 3.1 Introduction to HTTP
- 3.2 HTTP Methods
 - 3.2.1 Safe Methods
 - 3.2.2 Unsafe Methods
- 3.3 HTTP Status Codes
- 3.4 HTTP Security Issues
- 3.5 List of HTTP Security Headers
- 3.6 HTTPS

Module 4: Information Gathering

- 4.1 Passive Information Gathering
 - 4.1.1 Search Engine Reconnaissance
 - 4.1.2 Fingerprint Web Server
- 4.2 Active Information Gathering
 - 4.2.1 Identifying Application Entry Points

Module 5: SQL Injection

- 5.1 Introduction to SQL Injection
- 5.2 Automating SQL Injection
- 5.3 Remediation

Day 2 – Module 6 to 9

Module 6: Cross-Site Scripting (XSS)

- 6.1 Types of XSS
- 6.2 Mitigation

Module 7: Cross-Site Request Forgery (CSRF)

- 7.1 How to test?
- 7.2 Sample X-CSRF Token Implementation
- 7.3 Fixing the Right Way

Module 8: File Inclusion Attacks

- 8.1 Local File Inclusion
- 8.2 Remote File Inclusion
- 8.3 Prevention

Module 9: Mastering Burp Suite

- 9.1 Burp Suite as a Proxy
- 9.2 Community Version vs. Licensed
- 9.3 Components of Burp Suite