
TEC012: Hacking and Auditing Web Application Security**COURSE DESCRIPTION :**

This course provides in-depth knowledge about Web application security explains common security terminology and presents a set of proven security principles upon which many of the recommendations throughout this guide are based. It presents an overview of the security process and explains why a holistic approach to security that covers multiple layers including the network, host and application, is required to achieve the goal of hack-resilient Web applications.

PREREQUISITES :

- This course focuses on the latest tools and techniques used in designing applications which provide data to those who need it while keeping the bad guys out.
- The candidate will have hands on experience using current tools to detect and prevent Cross-site Scripting (XSS), and SQL Injection as well as an in-depth understanding of authentication, and session management systems and their weaknesses and how they are best defended.
- This course will focus on OWASP top 10 web application security guide.

PREREQUISITE :

- Knowledge about basic networking
- Knowledge about Information Security
- Knowledge about Web Application Technologies

WHO SHOULD ATTEND :

- Web Application Programmers
- Systems/Network Administrators
- IT Auditors
- Anyone interested in learning the concepts of secure Web application design
- Information Security Professional

COURSE OUTLINE :

- **Module 1:** Introduction to Web Application Security
 - The Evolution of Web Applications
 - Components used in Enterprise Web Environments
 - Web Application Technologies
 - Web Application Security
- **Module 2:** OWASP Projects
 - OWASP TOP 10 Project
 - OWASP Testing Guide Project
 - OWASP Code Review Project
 - Other OWASP Projects
- **Module 3:** Discovery and Identifying the Web Server, Web Application and Subsystem
 - Internet Host and Network Information Gathering
 - OS Fingerprinting
 - Web Server Fingerprinting
 - Application Fingerprinting
 - Investigating Web Service Vulnerabilities
 - Web harvesting

- **Module 4:** Attack: Bypassing Client-Side Controls
 - Transmitting (sensitive) Data via the Client
 - Bypass Client-Side Script Validation
- **Module 5:** Attack: Access Controls
 - Common vulnerabilities
 - Attacking Access Controls
 - Exploiting Path Traversal
- **Module 6:** Attack: Authentication and Session Management
 - Authentication Technologies
 - Design Flaws in Authentication Mechanisms
 - Implementation Flaws in Authentication
 - Weaknesses in Session Token Generation
 - Weaknesses in Session Token Handling
- **Module 7:** Attack: Injecting Code
 - Command injection
 - Web Scripting Languages Injection
 - SOAP Injection
 - SQL Injection
 - LDAP Injection
 - SMTP Injection
- **Module 8:** Attack: Cross-Site Scripting
 - Reflected XSS
 - Stored XSS
 - DOM-Based XSS
 - Request Forgery XSS
 - Exploitation Techniques
- **Module 9:** Attack: Application Logic
 - The Nature of Logic Flaws
 - Avoiding Logic Flaws
- **Module 10:** Attack: Exploiting Information Disclosure
 - Exploiting Error Messages
 - GHDB (Google Hack Database)
- **Module 11:** Attack: Buffer Overflow
 - Buffer Overflow Vulnerabilities
- **Module 12:** Attack: Web Server
 - Vulnerable Web Server Configuration
 - Vulnerable Web Server Software
- **Module 13:** Finding Vulnerabilities in Source Code
 - Approaches to Code Review
 - Signature of Common Vulnerabilities

วิทยากร :



อาจารย์เอกฤทธิ ธรรมสถิต

- Microsoft Certified professional (MCP)
- Microsoft Certified Systems Administrator (MSCA)
- Microsoft Certified Systems Engineer (MSCE)
- Cisco Certified Network Associate (CCNA)
- Certificate of CompTIA Security+
- Certified Ethical Hacker
- Certified Wireless Network Administrator
- Certified Wireless Security Professional

จำนวนชั่วโมงในการฝึกอบรม : 5 วัน (30 ชั่วโมง)

ช่วงเวลาฝึกอบรม : 9.00 - 16.00 น.

สถานที่ฝึกอบรม :

สถาบันวิทยาการ สวทช.

เลขที่ 73/1 อาคารสำนักงานพัฒนาวิทยาศาสตร์และเทคโนโลยีแห่งชาติ (สวทช.)

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วิธีการสำรองที่นั่ง :

ติดต่อสำรองที่นั่งล่วงหน้า ในวัน-เวลาราชการ

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