

Secure Application Coding Practices

Hands-On | 30+ Hours, 5 Days | Hack2Secure's 'Secure Application Programmer' Exam Attempt

Online LAB Access | Laptop Required | Aligned with Industry Security Best Practices & Requirements

Hack2Secure's Workshop on 'Secure Application Coding Practices' provides hands-on exposure on Secure Software Development practices, using Simulated Lab Environment, required for understanding and analysis of different Application Security Risk and Attack vectors.

Scoped around OWASP recommended Secure Coding practices, these intensive practical oriented sessions provide deep-dive on required tips and tricks to develop, review and implement Secure Software/Application.

Key Take Away

- Secure Design Principles
- CWE Top 25 Most Dangerous Software Programming Errors
- Secure Coding Practices to ensure
 - Data Confidentiality, Integrity and Availability
 - Authentication, Authorization and Accountability
- Security Controls for JAVA & .NET
- Secure Coding Practices to ensure Secure
 - Database & Configuration
 - Memory Management
 - File Management
- AJAX & REST Security Practices
- OWASP Enterprise Security API (ESAPI)
- Secure SDLC Implementation/Coding level Requirements
 - Code Review & Analysis

What You Will Receive

- **Instructor Led Classroom Sessions**
- **Soft Deliverables**
 - Program Slides & Lab Guides
 - Reference Documents
- **Online Lab Access [30 Days]**
- **H2S's SecAP Cert Attempt Voucher**
 - 1 Attempt, 6 months Validity
 - Globally Proctored and Delivered by Pearson VUE
- Access to **Self-Paced Online Sessions**
- **Training Completion Certificate**

For more details

www.hack2secure.com/sacp

Who Should Attend

- Software/Application Professionals
 - Programmers/Developers, Consultants
 - Architects, Research Engineers
 - Team Leads, Sr. Engineers
- Security Team/Office
 - White Box Testing Engineers
 - Secure Code Review Professionals
 - Auditors, Security Engineers
 - Penetration Testers
 - CISO, Managers, Consultants
- Professionals
 - Looking to explore their Implementation level skills in Application Security domain
- Students
 - Looking to pursue career in Application/Software Security Domain

For more details, www.hack2secure.com | training@hack2secure.com

Detailed Curriculum

Module#1: InfoSec Concepts

- Core Security Concepts
 - Confidentiality
 - About, Encryption, PKI
 - SSL/TLS Handshake, Practices
 - Integrity
 - About, How to Ensure
 - Hashing, Digital Signatures
 - Availability
 - About, How to Ensure
 - Authentication
 - Types, Deployment methods
 - Password Security Best Practices
 - About Authorization
 - About, How to Ensure
 - Access Control: Types
 - About Accountability
 - About, How to Ensure
- Secure Design Principles
 - About, Best Practices, Case Studies

Module#2: AppSec Concepts

- OWASP Top10: Web Application Security Risk
- CWE/SANS Top 25 Most Dangerous Errors
 - Insecure Interaction between Components
 - Risky Resource Management
 - Porous Defenses

Module#3: Secure Practices: C.I.A. Triad

- Cryptographic Practices
- Communication Security
- Input Validation
- Canonicalization, Code Access Security
- Output Encoding
- Anti-Tampering

Module#4: Secure Practices: A.A.A.

- Authentication & Password Management
- Session Management
- Access Control
- Error Handling & Logging
- Exception Management

Module#5: Secure Practices: Data at Rest

- System Configuration
- Database Security
- File Management
- Memory Management

Module#6: Securing Web Services

- About Web Services
- SOAP/XML, REST/JSON
 - Features, Usage and Security Concerns
 - Attack Scenarios
- AJAX Technologies
 - About, Features and Security Concerns
 - Attack Scenarios
- REST & AJAX Security Best Practices

Module#7: Enterprise Security API (ESAPI)

- ESAPI Project
 - About, Use Cases
 - Recommended Practices & Templates

Module#8: Secure SDLC - Implementation

- Secure SDLC
 - About, Use Cases
- Implementation Level Controls
 - Versioning: Best practices
 - Code Review & Analysis
 - Best Practices
 - Static Code Analysis

Online Lab Layout

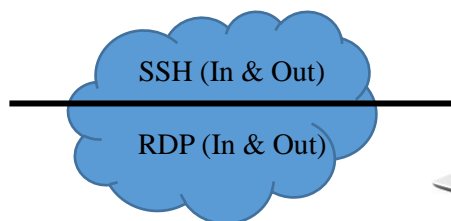
Cloud Based | Independent Setup for Each Participant | Accessible for 30 Days



Vulnerable Web Server
(Target Machine)



Linux Machine
(Client/Attacker)



SSH (In & Out)

RDP (In & Out)



Candidate Machine

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Secure Application Programmer

Evaluate your Secure Application Implementation Knowledge & Skills



Hack2Secure

Secure Application Programmer

Globally Available | Proctored | 180 mins. | 90 MCQ | Passing Grade: 60% | Exam Language: English

Hack2Secure's Secure Application Programmer (SecAP) Certificate program evaluates individuals conceptual and implementation level skills in Industry recommended Secure Application Coding practices.

This program ensures candidate's awareness on Software/Application Secure Implementation/Coding Best practices and recommended defensive measures against most common Application Security Risk. It walks through building blocks of different Security Controls and ensures effective measures and strategies are addressed from core level.

Benefits

- Validates your awareness and knowledge in Application Security Systems and Domains.
- Get Global Recognition and Credibility
- Ensures Real Time skills required to handle Application Security Risk
- Demonstrate Knowledge of Industry Standards and Best Practices
- Ensures effective skills to measure and implement Security Controls

Attempt to
Hack2Secure's SecAP
Exam is **included** as part
of "Secure Application
Coding Practices"
program from
Hack2Secure

1 Attempt | 6 months Voucher Validity

Proctored & Delivered globally at
Pearson VUE Authorized Test Centres

To Schedule Exam
"Secure Application Programmer"
www.pearsonvue.com/hack2secure



www.hack2secure.com | certificate@hack2secure.com

About Hack2Secure

Hack2Secure excels in “Information Security” Domain and offers customised IT Security programs, including Training, Services and Solutions. Our programs are designed by industry experts and tailored as per specific needs. We help students, professionals and companies with knowledge, tools and guidance required to be at forefront of a vital and rapidly changing IT industry.

InfoSec Training

Vendor Independent, Customizable, Across Domains

Hack2Secure excels in delivering intensive, immersion security training sessions designed to master practical steps necessary for defending systems against the dangerous security threats. Our wide range of fully customizable training courses allow individual to master different aspects of Information Security as per their industry requirement and convenience.

- Delivered Training to more than 15k+ Professionals Globally
- Customizable Security Training Programs, aligned with Business Requirements

InfoSec Certification

- Globally delivered and Proctored Security Certification programs with **PearsonVUE**
- Vendor Independent Programs based on Industry Security Standards and Practices

InfoSec Services

Hack2Secure offers IT Security Professional Services to provide ways to stay ahead of Security Threats through adaptive and proactive Security methods like

- Secure Software Development Lifecycle
- Secure Application Design & Threat Modeling
- Application Security Testing
- Risk Assessment, Consulting



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Source: GDS Review Magazine