

# TRAINING SOLUTIONS

## APPLICATION SECURITY TRAINING

### SECURE CODING

AWA 101. Fundamentals of Application Security

AWA 102. Secure Software Concepts

COD 101. Fundamentals of Secure Development

COD 110. Fundamentals of Secure Mobile Development

COD 141. Fundamentals of Secure Database Development

COD 152. Fundamentals of Secure Cloud Development

COD 153. Fundamentals of Secure AJAX Code

COD 160. Fundamentals of Secure Embedded Software Development

COD 170. Identifying Threats to Mainframe COBOL Apps and Data

#### **COD 200. CREATING SECURE C CODE SERIES**

COD 201. Secure C Encrypted Network Communications

COD 202. Secure C Run-Time Protection

#### **COD 205. CREATING SECURE C++ CODE SERIES**

COD 206. Creating Secure C++ Code

COD 207. Communication Security in C++

COD 307. Protecting Data in C++

#### **COD 215. CREATING SECURE CODE .NET FRAMEWORK SERIES**

COD 216. Leveraging .NET Framework Code Access Security

COD 217. Mitigating .NET Security Threats

COD 219. Creating Secure Code - SAP ABAP Foundations

COD 222. PCI DSS v3.2 Best Practices for Developers

#### **COD 224. IoT SPECIALIZATION SERIES**

COD 225. Insecure IoT Web Interface

COD 226. Insufficient IoT Authentication/Authorization

COD 227. Insecure IoT Network Services

COD 228. Insecure IoT Communications

COD 229. Insecure IoT Mobile Interface

COD 230. Insecure IoT Firmware

#### **COD 233. OWASP MOBILE SERIES**

COD 234. Mobile Threats and Mitigations

COD 235. Defending Mobile Data with Cryptography

COD 236. Mobile App Authentication and Authorization

COD 237. Defending Mobile App Code

COD 241. Creating Secure Code - Oracle Foundations

COD 242. Creating Secure Code - SQL Server Foundations

COD 251. Creating Secure AJAX Code – ASP.NET Foundations

COD 252. Creating Secure AJAX Code – Java Foundations

COD 253. Creating Secure Cloud Code - AWS Foundations

COD 254. Creating Secure Cloud Code - Azure Foundations

COD 255. Creating Secure Code - Web API Foundations

COD 256. Creating Secure Code – Ruby on Rail Foundations

COD 257. Creating Secure Python Web Applications

COD 259. Node.js Threats and Vulnerabilities

#### **COD 260. SECURE SCRIPTING SERIES**

COD 261. Threats to Scripts

COD 262. Fundamentals of Secure Scripting

COD 263. Secure Scripting with Perl, Python, Bash and Ruby

COD 264. Protecting Sensitive Data While Scripting

COD 270. Creating Secure COBOL and Mainframe Applications

#### **COD 280. CREATING SECURE JAVA SERIES**

COD 281. Java Security Model

COD 282. Java Authentication and Authorization

COD 283. Java Cryptography

#### **COD 300. PROTECTING C CODE SERIES**

COD 301. Secure C Buffer Overflow Mitigations

COD 302. Secure C Memory Management

COD 303. Common C Vulnerabilities and Attacks

COD 311. Creating Secure ASP.NET MVC Applications

COD 315. Creating Secure PHP Code

COD 316. Creating Secure iOS Code in Objective C

COD 317. Creating Secure iOS Code in Swift

COD 318. Creating Secure Android Code in Java

#### **COD 320. PROTECTING C# SERIES**

COD 321. Protecting C# from Integer Overflows and Canonicalization Issues

COD 322. Protecting C# from SQL and XML Injection

COD 323. Protecting Data in C#

COD 352. Creating Secure jQuery Code

#### **COD 360. CREATING SECURE HTML5 CODE SERIES**

COD 361. HTML5 Security Threats

COD 362. HTML5 Built-In Security Features

COD 363. Securing HTML5 Data

COD 364. Securing HTML5 Connectivity

#### **COD 379. PROTECTING JAVA CODE SERIES**

COD 380. Protecting Java Code: SQLi and Integer Overflows

COD 381. Protecting Java Code: Canonicalization, Information Disclosure and TOCTOU

COD 382. Protecting Data in Java

## SECURE DESIGN

- DES 101. Fundamentals of Secure Architecture
- DES 202. Cryptographic Suite Services: Encoding, Encrypting & Hashing
- DES 203. Cryptographic Components: Randomness, Algorithms & Key Management
- DES 204. The Role of Cryptography in Application Development
- DES 205. Message Integrity Cryptographic Functions
- DES 212. Architecture Risk Analysis and Remediation
- DES 213. DESIGNING SECURE ENTERPRISE INFRASTRUCTURE SERIES**
  - DES. 214. Securing Network Access
  - DES 215. Security Operating System Access
  - DES 216. Security Cloud Instances
  - DES 217. Application, Technical and Physical Access Controls
- DES 221. OWASP 2017 TOP TEN SERIES**
  - DES 222. Mitigating Injection
  - DES 223. Mitigating Broken Authentication
  - DES 224. Mitigating Sensitive Data Exposure
  - DES 225. Mitigating XML External Entities
  - DES 226. Mitigating Broken Access Controls
  - DES 227. Mitigating Security Misconfiguration
  - DES 228. Mitigating Cross Site Scripting
  - DES 229. Mitigating Insecure Deserialization
  - DES 230. Mitigating Use of Components with Known Vulnerabilities
  - DES 231. Mitigating Insufficient Logging and Monitoring Vulnerabilities
- DES 260. Fundamentals of IoT Architecture and Design
- DES 311. Creating Secure Application Architecture
- DES 352. Creating Secure OTA Automotive System Updates

## SECURITY ENGINEERING

- ENG 190. IMPLEMENTING MS SDL PROCESS INTO YOUR SDLC**
  - ENG 191. Introduction to the Microsoft SDL
  - ENG 192. Implementing the Agile MS SDL
  - ENG 193. Implementing the MS SDL Optimization Model
  - ENG 194. Implementing MS SDL Line of Business
  - ENG 195. Implementing the MS SDL Threat Modeling Tool
- ENG 205. Fundamentals of Threat Modeling
- ENG 211. How to Create Application Security Design Requirements
- ENG 311. Attack Surface Analysis & Reduction
- ENG 312. How to Perform a Security Code Review

## SECURITY TESTING

- TST 101. Fundamentals of Security Testing
- TST 221. TESTING FOR OWASP 2017 SERIES**
  - TST 222. Testing for OWASP 2017: Injection
  - TST 223. Testing for OWASP 2017: Broken Authentication
  - TST 224. Testing for OWASP 2017: Sensitive Data Exposure
  - TST 225. Testing for OWASP 2017: XML External Entities
  - TST 226. Testing for OWASP 2017: Broken Access Control
  - TST 227. Testing for OWASP 2017: Security Misconfiguration
  - TST 228. Testing for OWASP 2017: Cross Site Scripting
  - TST 229. Testing for OWASP 2017: Insecure Deserialization
- TST 230. Testing for OWASP 2017: Use of Components with Known Vulnerabilities
  - TST 231. Testing for OWASP 2017: Insufficient Logging and Monitoring
- TST 250. TESTING FOR CWE SANS TOP 25 SOFTWARE ERRORS SERIES**
  - TST 251. Testing for SQL Injection
  - TST 252. Testing for OS Command Injection
  - TST 253. Testing for Classic Buffer Overflow
  - TST 254. Testing for Cross-site Scripting
  - TST 255. Testing for Missing Authentication for Critical Function
  - TST 256. Testing for Missing Authorization
  - TST 257. Testing for Use of Hard-Coded Credentials
  - TST 258. Testing for Missing Encryption of Sensitive Data
  - TST 259. Testing for Unrestricted Upload of File with Dangerous Type
  - TST 260. Testing for Reliance on Untrusted Inputs in a Security Decision
  - TST 261. Testing for Execution with Unnecessary Privileges
  - TST 262. Testing for Cross Site Request Forgery
  - TST 263. Testing for Path Traversal
  - TST 264. Testing for Download of Code without Integrity Check
  - TST 265. Testing for Incorrect Authorization
  - TST 266. Testing for Inclusion of FUnctionality from Untrusted Control Sphere
  - TST 267. Testing for Incorrect Permission Assignment for Critical Resource
  - TST 268. Testing for Use of a Potentially Dangerous Function
  - TST 269. Testing for Use of a Broken or Risky Cryptographic Algorithm
  - TST 270. Testing for Incorrect Calculation of Buffer Size
  - TST 271. Testing for Restriction of Excessive Authentication Attempts
  - TST 272. Testing for Open Redirect
  - TST 273. Testing for Uncontrolled Format Strign
  - TST 274. Testing for Integer Overflow or Wraparound
  - TST 275. Testing for Use of a One-Way Hash without a Salt

# IT INFRASTRUCTURE SECURITY TRAINING

## SECURITY ESSENTIALS

ENG 110. Essential Account Management Security  
ENG 111. Essential Session Management Security  
ENG 112. Essential Access Control for Mobile Devices  
ENG 113. Essential Secure Configuration Management  
ENG 114. Essential Risk Assessment  
ENG 115. Essential System and Information Integrity  
ENG 116. Essential Incident Response  
ENG 117. Essential Security Audit and Accountability  
ENG 118. Essential Security Assessment and Authorization

ENG 119. Essential Identification and Authentication  
ENG 120. Essential Physical and Environmental Protection  
ENG 121. Essential Security Engineering Principles  
ENG 122. Essential Application Protection  
ENG 123. Essential Data Protection  
ENG 124. Essential Security Planning Policy and Procedures  
ENG 125. Essential Information Security Program Planning  
ENG 126. Essential Security Maintenance Policies  
ENG 127. Essential Media Protection

# INFORMATION SECURITY & PRIVACY TRAINING

## GENERAL AWARENESS

AWA 007. Information Privacy and Security Awareness for Executives  
AWA 008. Information Privacy - Classifying Data  
AWA 009. Information Privacy - Protecting Data  
AWA 010. Email Security  
AWA 012. Malware Awareness  
AWA 013. Mobile Security

AWA 014. Password Security  
AWA 015. PCI Compliance  
AWA 016. Phishing Awareness  
AWA 017. Physical Security  
AWA 018. Social Engineering Awareness  
AWA 019. Travel Security