

COMPLIANCE STANDARDS



COURSE TITLE

CWE OWASP NIST* PCI ISO NERC HIPAA GDPR MITRE

SECURITY PRINCIPLES

COURSE TITLE	CWE	OWASP	NIST*	PCI	ISO	NERC	HIPAA	GDPR	MITRE
AWA 101. Fundamentals of Application Security	✓	✓		✓			✓	✓	
AWA 102. Secure Software Concepts	✓	✓	✓	✓	✓	✓		✓	
COD 102. Challenges in Application Security	✓	✓							
COD 103. Creating Software Security Requirements	✓	✓	✓	✓	✓	✓			
COD 104. Designing Secure Software	✓	✓	✓	✓	✓	✓			
COD 105. Secure Software Development	✓	✓	✓	✓	✓	✓			
COD 106. The Importance of Integration and Testing	✓		✓	✓	✓	✓			
COD 107. Secure Software Deployment			✓	✓	✓	✓			
COD 108. Software Operations and Maintenance			✓	✓	✓	✓			
ENG 110. Essential Account Management Security			✓						
ENG 111. Essential Session Management Security			✓						
ENG 112. Essential Access Controls for Mobile Devices			✓						
ENG 113. Essential Secure Configuration Management			✓						
ENG 114. Essential Risk Assessment			✓					✓	
ENG 115. Essential System and Information Integrity			✓						
ENG 116. Essential Security Planning Policy and Procedures			✓						
ENG 117. Essential Information Security Program Planning			✓						
ENG 118. Essential Incident Response			✓						
ENG 119. Essential Security Audit and Accountability			✓						
ENG 120. Essential Personnel Security Policy and Procedures			✓						
ENG 121. Essential Identification and Authentication			✓						
ENG 122. Essential Physical and Environmental Protection			✓						
ENG 123. Essential Secure Software Engineering Principles			✓						
ENG 124. Essential Application Protection			✓						
ENG 125. Essential Data Protection			✓					✓	
ENG 126. Essential Security Maintenance Policies			✓						
ENG 127. Essential Media Protection			✓						
ENG 150. Meeting Confidentiality, Integrity and Availability Requirements			✓	✓	✓	✓	✓	✓	
ENG 151. Fundamentals of Privacy Protection		✓	✓					✓	

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SECURE DEVELOPMENT (continued)

COD 261. Threats to Scripts	✓	✓		✓					
COD 262. Fundamentals of Shell and Interpreted Language Security	✓	✓		✓					
COD 263. Secure Bash Scripting	✓	✓		✓					
COD 264. Secure Perl Scripting	✓	✓		✓					
COD 265. Secure Python Scripting	✓	✓		✓					
COD 266. Secure Ruby Scripting	✓	✓		✓					
COD 267. Securing Python Microservices	✓	✓							
COD 270. Creating Secure COBOL and Mainframe Applications	✓	✓	✓	✓	✓	✓			
COD 283. Java Cryptography	✓	✓	✓		✓	✓	✓	✓	
COD 284. Secure Java Coding	✓	✓	✓		✓	✓	✓	✓	
COD 285. Developing Secure Angular Applications		✓		✓					
COD 286. Creating Secure React User Interfaces		✓		✓					
COD 287. Java Application Server Hardening (UPDATED)	✓	✓	✓	✓					
COD 288. Java Public Key Cryptogrphahy (NEW)		✓	✓						
COD 301. Secure C Buffer Overflow Mitigations	✓	✓							
COD 302. Secure C Memory Management	✓			✓					
COD 303. Common C Vulnerabilities and Attacks	✓	✓							
COD 307. Protecting Data in C++	✓	✓							
COD 308. Common ASP.NET Vulnerabilities and Attacks	✓	✓	✓	✓	✓	✓	✓		
COD 309. Securing ASP.NET MVC Applications	✓	✓	✓	✓	✓	✓	✓		
COD 315. Preventing Vulnerabilities in iOS Code in Swift	✓	✓	✓	✓	✓	✓			
COD 316. Creating Secure iOS Code in Objective C	✓	✓	✓	✓	✓	✓	✓	✓	
COD 317. Protecting Data on iOS in Swift	✓	✓	✓	✓	✓	✓			
COD 318. Protecting Data on Android in Java		✓	✓	✓	✓	✓		✓	
COD 319. Preventing Vulnerabilities in Android Code in Java		✓	✓	✓	✓	✓			
COD 321. Protecting C# from Integer Overflows and Canonicalization Issues	✓	✓	✓	✓	✓	✓	✓	✓	
COD 322. Protecting C# from SQL Injection	✓	✓	✓	✓	✓	✓	✓	✓	
COD 323. Using Encryption with C#	✓	✓	✓	✓	✓	✓	✓	✓	
COD 324. Protecting C# from XML Injection	✓	✓	✓	✓	✓	✓	✓	✓	
COD 352. Creating Secure JavaScript and jQuery Code	✓	✓	✓	✓	✓	✓			
COD 361. HTML5 Security Threats	✓	✓	✓	✓	✓	✓			
COD 362. HTML5 Built-In Security Features	✓	✓	✓	✓	✓	✓			
COD 363. Securing HTML5 Data	✓	✓	✓	✓	✓	✓			

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SECURE DEVELOPMENT (continued)

COURSE TITLE	CWE	OWASP	NIST*	PCI	ISO	NERC	HIPAA	GDPR	MITRE
COD 364. Securing HTML5 Connectivity	✓	✓	✓	✓	✓	✓			
COD 366. Creating Secure Kotlin Applications		✓		✓					
COD 380. Preventing SQL Injection in Java	✓	✓	✓						
COD 381. Preventing Path Traversal Attacks in Java	✓	✓	✓						
COD 382. Protecting Data in Java	✓	✓							
COD 383. Protecting Java Backend Services (UPDATED)	✓	✓	✓	✓					
COD 384. Protecting Java from Information Disclosure	✓	✓	✓						
COD 385. Preventing Race Conditions in Java Code	✓	✓	✓						
COD 386. Preventing Integer Overflows in Java Code	✓	✓	✓						
DES 207. Mitigating OWASP API Security Top 10		✓	✓						
DES 208. Defending Against the CSA Top 11 Threats to Cloud			✓						
DES 232. Mitigating OWASP 2021 Injection	✓	✓	✓	✓					
DES 233. Mitigating OWASP 2021 Identification and Authentication Failures	✓	✓	✓	✓					
DES 234. Mitigating OWASP 2021 Cryptographic Failures	✓	✓	✓	✓					✓
DES 235. Mitigating OWASP 2021 Insecure Design	✓	✓	✓						
DES 236. Mitigating OWASP 2021 Broken Access Control	✓	✓	✓	✓					
DES 237. Mitigating OWASP 2021 Security Misconfiguration	✓	✓	✓	✓					
DES 238. Mitigating OWASP 2021 Server-Side Request Forgery (SSRF)	✓	✓	✓						
DES 239. Mitigating OWASP 2021 Software and Data Integrity Failures		✓							
DES 240. Mitigating OWASP 2021 Vulnerable and Outdated Components		✓	✓	✓					
DES 241. Mitigating OWASP 2021 Security Logging and Monitoring Failures		✓	✓	✓					
DES 271. OWASP M1: Mitigating Improper Platform Usage		✓							
DES 272. OWASP M2: Mitigating Insecure Data Storage		✓							
DES 273. OWASP M3: Mitigating Insecure Communication		✓							
DES 274. OWASP M4: Mitigating Insecure Authentication		✓							
DES 275. OWASP M5: Mitigating Insufficient Cryptography		✓							
DES 276. OWASP M6: Mitigating Insecure Authorization		✓							
DES 277. OWASP M7: Mitigating Client Code Quality		✓							
DES 278. OWASP M8: Mitigating Code Tampering		✓							
DES 279. OWASP M9: Mitigating Reverse Engineering		✓							
DES 280. OWASP M10: Mitigating Extraneous Functionality		✓							
DES 281. OWASP IoT1: Mitigating Weak, Guessable or Hardcoded Passwords		✓							
DES 282. OWASP IoT2: Mitigating Insecure Network Services		✓							

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SECURE DESIGN (continued)

ENG 211. How to Create Application Security Design Requirements		✓	✓	✓	✓	✓	✓	✓	
ENG 212. Implementing Secure Software Operations	✓	✓	✓	✓					
ENG 251. Risk Management Foundations			✓						
ENG 311. Attack Surface Analysis and Reduction		✓		✓					✓
ENG 312. How to Perform a Security Code Review	✓	✓	✓	✓	✓	✓			✓
ENG 320. Using Software Composition Analysis to Secure Open-Source Components (NEW)	✓	✓	✓	✓					
ENG 351. Preparing the Risk Management Framework			✓						
ENG 352. Categorizing Systems and Information within the RMF			✓	✓					✓
ENG 353. Selecting, Implementing, and Assessing Controls within the RMF		✓	✓	✓					✓
ENG 354. Authorizing and Monitoring System Controls within the RMF		✓	✓	✓					✓

INFRASTRUCTURE SECURITY

DES 210. Hardening Linux/Unix Systems	✓	✓	✓	✓					✓
DES 212. Architecture Risk Analysis and Remediation		✓	✓	✓	✓	✓	✓	✓	✓
DES 214. Securing Infrastructure Architecture			✓	✓	✓	✓	✓	✓	✓
DES 215. Defending Infrastructure			✓	✓	✓	✓	✓	✓	✓
DES 216. Protecting Cloud Infrastructure			✓	✓	✓	✓	✓	✓	✓
DES 217. Securing Terraform Infrastructure and Resources			✓						
DES 218. Protecting Microservices, Containers, and Orchestration			✓	✓	✓	✓	✓	✓	✓
DES 219. Securing Google's Firebase Platform			✓		✓				
DES 260. Fundamentals of IoT Architecture and Design	✓	✓	✓	✓	✓	✓	✓	✓	✓
DES 261. Securing Serverless Environments		✓	✓						
DES 306. Creating a Secure Blockchain Network	✓	✓	✓	✓					✓
DES 314. Hardening the Docker Engine			✓						
ICS 210. ICS/SCADA Security Essentials			✓						
ICS 310. Protecting Information and System Integrity in Industrial Control System Environments			✓						

DevSecOps

CYB 310. Using Cyber Supply Chain Risk Management to Mitigate Threats to IT/OT (NEW)			✓						
CYB 311. Threat Analysis with Artificial Intelligence (NEW)			✓						
DSO 201. Fundamentals of Secure DevOps			✓	✓					
DSO 205. Securing the COTS Supply Chain	✓	✓	✓						

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DevSecOps (continued)

DSO 206. Securing the Open Source Software Supply Chain		✓	✓						
DSO 211. Identifying Threats to Containers and Data in a DevSecOps Framework	✓	✓	✓	✓					
DSO 212. Fundamentals of Zero Trust Security			✓						
DSO 253. DevSecOps in the AWS Cloud		✓	✓						✓
DSO 254. DevSecOps in the Azure Cloud		✓	✓						✓
DSO 256. DevSecOps in the Google Cloud Platform		✓	✓						✓
DSO 301. Orchestrating Secure System and Service Configuration		✓	✓	✓					
DSO 302. Automated Security Testing			✓	✓					
DSO 303. Automating Security Updates	✓		✓	✓					
DSO 304. Securing API Gateways in a DevSecOps Framework	✓	✓	✓						
DSO 305. Automating CI/CD Pipeline Compliance		✓	✓						✓
DSO 306. Implementing Infrastructure as Code			✓						
DSO 307. Secure Secrets Management			✓	✓					

SECURITY TESTING

ATK 201. Fundamentals of Security Testing			✓	✓					✓
CYB 250. Cyber Threat Hunting: Tactics, Techniques, and Procedures (TTP)			✓						✓
CYB 301. Fundamentals of Ethical Hacking			✓	✓					✓
SDT 301. Testing for Injection	✓	✓	✓	✓	✓	✓	✓	✓	
SDT 302. Testing for Identification and Authentication Failures	✓	✓	✓	✓	✓	✓	✓	✓	
SDT 303. Testing for Cryptographic Failures	✓	✓	✓	✓	✓	✓	✓	✓	
SDT 304. Testing for Insecure Design	✓	✓	✓	✓	✓	✓	✓	✓	
SDT 305. Testing for Broken Access Control	✓	✓	✓	✓	✓	✓	✓	✓	
SDT 306. Testing for Security Misconfiguration	✓	✓	✓	✓	✓	✓	✓	✓	
SDT 307. Testing for Server-Side Request Forgery	✓	✓	✓	✓	✓	✓	✓	✓	
SDT 308. Testing for Software and Data Integrity Failures	✓	✓	✓	✓	✓	✓	✓	✓	
SDT 309. Testing for Vulnerable and Outdate Components	✓	✓	✓	✓	✓	✓	✓	✓	
SDT 310. Testing for Security Logging and Monitoring Failures		✓	✓	✓	✓	✓	✓	✓	
SDT 311. Testing for Integer Overflow or Wraparound	✓	✓	✓	✓					
SDT 312. Testing for Path Traversal	✓								
SDT 313. Testing for Cross Site Request Forgery	✓								
SDT 314. Testing for Unrestricted Upload of File with Dangerous Type	✓	✓							
SDT 315. Testing for Incorrect Permission Assignment for Critical Resource	✓	✓							

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SECURITY TESTING (continued)

COURSE TITLE	CWE	OWASP	NIST*	PCI	ISO	NERC	HIPAA	GDPR	MITRE
SDT 316. Testing for Use of Hard-Coded Credentials	✓								
SDT 317. Testing for Improper Control of Generation of Code ("Code Injection")	✓	✓		✓					
SDT 318. Testing for Insufficiently Protected Credentials	✓	✓		✓					
SDT 319. Testing for Out-of-bound Read	✓	✓		✓					
SDT 320. Testing for Out-of-bounds Write	✓	✓		✓					
SDT 321. Testing for Uncontrolled Resource Consumption	✓	✓		✓					
SDT 322. Testing for Improper Privilege Management	✓	✓		✓					
SDT 323. Testing for Improper Input Validation	✓	✓		✓					
SDT 324. Testing for Improper Restriction of Operations within the Bounds of a Memory Buffer	✓	✓		✓					
SDT 325. Testing for NULL Pointer Dereference	✓	✓		✓					
SDT 326. Testing for Use After Free	✓	✓		✓					
TST 101. Fundamentals of Security Testing	✓	✓	✓	✓	✓	✓			
TST 202. Penetration Testing Fundamentals	✓	✓	✓						
TST 205. Performing Vulnerability Scans	✓		✓						
TST 206. ASVS Requirements for Developers		✓		✓					
TST 301. Infrastructure Penetration Testing	✓		✓	✓				✓	
TST 302. Application Penetration Testing	✓		✓	✓				✓	
TST 303. Penetration Testing for Google Cloud Platform			✓						
TST 304. Penetration Testing for AWS Cloud			✓						
TST 305. Penetration Testing for Azure Cloud			✓						
TST 351. Penetration Testing for TLS Vulnerabilities	✓	✓	✓						
TST 352. Penetration Testing for Injection Vulnerabilities	✓	✓	✓						
TST 353. Penetration Testing for SQL Injection		✓							
TST 354. Penetration Testing for Memory Corruption Vulnerabilities	✓		✓						
TST 355. Penetration Testing for Authorization Vulnerabilities	✓	✓	✓						
TST 356. Penetration Testing for XSS	✓	✓							
TST 357. Penetration Testing for Hardcoded Secrets	✓		✓						
TST 358. Penetration Testing Wireless Networks	✓		✓						
TST 359. Penetration Testing Network Infrastructure	✓		✓						
TST 360. Penetration Testing for Authentication Vulnerabilities	✓		✓						

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LEARN LABS

COURSE TITLE	CWE	OWASP	NIST*	PCI	ISO	NERC	HIPAA	GDPR	MITRE
LAB 101. Identifying Broken Access Control Vulnerabilities	✓	✓	✓						✓
LAB 102. Identifying Broken Object Level Authorization Vulnerabilities	✓	✓	✓						✓
LAB 103. Identifying Broken User Authentication Vulnerabilities	✓	✓	✓						✓
LAB 104. Identifying Business Logic Flaw Vulnerabilities	✓	✓		✓					✓
LAB 105. Identifying Credential Dumping Vulnerabilities	✓	✓	✓						✓
LAB 106. Identifying Cross-Site Scripting Vulnerabilities	✓	✓	✓						✓
LAB 107. Identifying Injection Vulnerabilities	✓	✓	✓						✓
LAB 108. Identifying Reverse Engineering Vulnerabilities	✓	✓	✓						✓
LAB 109. Identifying Security Misconfiguration Vulnerabilities	✓	✓	✓						✓
LAB 110. Identifying Sensitive Data Exposure Vulnerabilities	✓	✓	✓						✓
LAB 111. Identifying Server-Side Request Forgery	✓	✓	✓						✓
LAB 113. Identifying Cryptographic Failures	✓	✓	✓						✓
LAB 114. Identifying Cookie Tampering	✓	✓	✓						✓
LAB 115. Identifying Reflective Cross-Site Scripting (XSS)	✓	✓	✓						✓
LAB 116. Identifying Forceful Browsing	✓	✓	✓						✓
LAB 117. Identifying Hidden Form Field	✓	✓	✓						✓
LAB 118. Identifying Weak File Upload Validation	✓	✓	✓						✓
LAB 119. Identifying Persistent Cross-Site Scripting (XSS)	✓	✓	✓						✓
LAB 120. Identifying XML Injection	✓	✓	✓						✓
LAB 121. Identifying Vulnerable and Outdated Components		✓	✓						✓
LAB 122. Identifying Insecure APIs		✓	✓						✓
LAB 123. Identifying Vertical Privilege Escalation		✓	✓						✓
LAB 124. Identifying Horizontal Privilege Escalation	✓	✓	✓						✓
LAB 125. Identifying Buffer Overflow	✓	✓	✓						✓
LAB 126. Identifying Information Leakage	✓	✓	✓						✓
LAB 127. Identifying Security Logging and Monitoring Failures	✓	✓							
LAB 128. Identifying Unverified Password Change	✓	✓							
LAB 129. Identifying Error Message Containing Sensitive Information	✓	✓							
LAB 130. Identifying Generation of Predictable Numbers or Identifiers	✓	✓							
LAB 131. Identifying Improper Restriction of XML External Entity Reference	✓	✓							✓
LAB 132. Identifying Exposed Services									✓
LAB 133. Identifying Exposure of Sensitive Information Through Environmental Variables	✓	✓	✓						✓

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LEARN LABS (continued)

LAB 134. Identifying Plaintext Storage of a Password	✓	✓	✓							✓
LAB 135. Identifying URL Redirection to Untrusted Site	✓	✓	✓							✓
LAB 136. Identifying Improper Neutralization of Script in Attributes in a Web Page	✓	✓	✓							✓
LAB 137. Identifying Improper Authorization (NEW)	✓	✓	✓							✓
LAB 138. Identifying Authorization Bypass Through User-Controlled Key (NEW)	✓	✓	✓							
LAB 139. Identifying Use of a Key Past its Expiration Date (NEW)	✓	✓	✓							✓

SKILL LABS

LAB 211. Defending Java Applications Against Credentials in Code Medium	✓	✓	✓							✓
LAB 212. Defending Python Applications Against Credentials in Code Medium	✓	✓	✓							✓
LAB 213. Defending Node.js Applications Against Credentials in Code Medium	✓	✓	✓							✓
LAB 214. Defending C# Applications Against Credentials in Code Medium	✓	✓	✓							✓
LAB 215. Defending Java Applications Against Business Logic Error for Input Validation	✓	✓	✓							✓
LAB 216. Defending Python Applications Against Business Logic Error for Input Validation	✓	✓	✓							✓
LAB 217. Defending Node.js Applications Against Business Logic Error for Input Validation	✓	✓	✓							✓
LAB 218. Defending C# Applications Against Business Logic Error for Input Validation	✓	✓	✓							✓
LAB 220. Defending Against Hard-Coded Secrets (HTML5)	✓	✓								
LAB 221. Defending C# Against SQL Injection	✓	✓	✓							
LAB 224. Defending Java Applications Against Forceful Browsing	✓	✓	✓							✓
LAB 225. Defending Python Applications Against Forceful Browsing	✓	✓	✓							✓
LAB 226. Defending Node.js Applications Against Forceful Browsing	✓	✓	✓							✓
LAB 227. Defending C# Applications Against Forceful Browsing	✓	✓	✓							✓
LAB 222. Defending Python Against SQL Injection	✓	✓	✓							
LAB 223. Defending Node.js Against SQL Injection	✓	✓	✓							
LAB 228. Defending Java Applications Against Weak AES ECB Mode Encryption	✓	✓								
LAB 229. Defending Java Applications Against Weak PRNG	✓	✓								
LAB 230. Defending Java Against Cross-Site Scripting (XSS)	✓	✓								
LAB 231. Defending Python Against Cross-Site Scripting (XSS)	✓	✓								
LAB 232. Defending C# Against Cross-Site Scripting (XSS)	✓	✓								
LAB 233. Defending Node.js Against Cross-Site Scripting (XSS)	✓	✓								
LAB 234. Defending Java Applications Against Parameter Tampering	✓	✓	✓							
LAB 235. Defending Java Applications Against Plaintext Password Storage	✓	✓	✓							
LAB 236. Defending Java Applications Against Sensitive Information in Error Messages	✓	✓								

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SKILL LABS (continued)

COURSE TITLE	CWE	OWASP	NIST*	PCI	ISO	NERC	HIPAA	GDPR	MITRE
LAB 275. Defending Java Applications Against Command Injection (NEW)	✓	✓	✓						
LAB 276. Defending Python Applications Against Command Injection (NEW)	✓	✓	✓						
LAB 277. Defending Node.js Applications Against Command Injection (NEW)	✓	✓	✓						
LAB 278. Defending C# Applications Against Command Injection (NEW)	✓	✓	✓						
LAB 279. Defending Java Applications Against Dangerous File Upload (NEW)	✓	✓	✓						
LAB 280. Defending Python Applications Against Dangerous File Upload (NEW)	✓	✓	✓						
LAB 281. Defending Node.js Against Dangerous File Upload (NEW)	✓	✓	✓						
LAB 282. Defending C# Applications Against Dangerous File Upload (NEW)	✓	✓	✓						
LAB 283. Defending Java Applications Against RegEx DoS (NEW)	✓	✓	✓						
LAB 284. Defending Python Applications Against RegEx DoS (NEW)	✓	✓	✓						
LAB 285. Defending Node.js Applications Against RegEx DoS (NEW)	✓	✓	✓						
LAB 286. Defending C# Applications Against RegEx DoS (NEW)	✓	✓	✓						
LAB 310. ATT&CK Testing for Port Scanning	✓	✓	✓						✓
LAB 311. Against Testing for TLS Vulnerability Scan	✓	✓	✓						✓
LAB 312. ATT&CK: Network Service Identification (NEW)			✓						✓
LAB 313. ATT&CK: Vulnerability Identification using Vulnerability Databases (NEW)			✓						✓
LAB 315. ATT&CK: Updating Vulnerable Java Web Application Server Software	✓	✓	✓						✓
LAB 321. ATT&CK: Password Cracking	✓	✓							✓
LAB 322. ATT&CK: Exploiting Windows File Sharing Server with EternalRomance Remote Services		✓							✓
LAB 323. ATT&CK: Exploiting Vulnerable Java Web Application Server Software	✓	✓	✓						✓
LAB 324. ATT&CK: Exploiting Java Web Application Server Misconfiguration	✓	✓	✓						✓
LAB 330. ATT&CK: Exploiting Java SQL Injection to Extract Password Hashes	✓	✓							✓
LAB 331. ATT&CK: Network Service Discovery	✓	✓							✓
LAB 332. ATT&CK: Network Share Discovery	✓	✓							✓
LAB 334. ATT&CK: Create Account	✓	✓							✓
LAB 335. ATT&CK: Unsecured Credentials	✓	✓							✓
LAB 336. ATT&CK: Data from Local System									✓
LAB 337. ATT&CK: Valid Accounts									✓

*Our NIST courses that map to 800-53 and 800-171 publications. To understand how courses map to specific requirements, please contact us.