

# eLEARNING FOR SECURE APPLICATION DEVELOPMENT

## Role Mapping & Compliance Guide

Course Name	PCI DSS	OWASP Top 10	Technical Leaders	Business Leaders	Web & Mobile Developers	Non-Web Developers	Security Architects & Specialists	Testers	Software Architects	
<b>APPLICATION SECURITY FUNDAMENTALS</b>										
100	Introduction to Application Security			OWASP Top 10	x	x	x	x	x	x
102	Introduction to the Secure Development Lifecycle		x	x	x	x	x	x	x	
103	Introduction to Managing Application Security		x	x			x		x	
<b>ASPECT ADVISORY SERIES</b>										
AAS	Introduction to Application Security Awareness		6.x.x	OWASP Top 10	x	x	x	x	x	x
AAS	Common Components of an Application Security Program		6.x.x	OWASP Top 10	x	x	x	x	x	x
AAS	Security in the Application Development Lifecycle		6.x.x	OWASP Top 10	x	x	x	x	x	x
AAS	Overview of ASKD Controls		6.x.x	OWASP Top 10	x		x	x	x	x
AAS	ASKD - Authentication and Identity		6.5.10	A2		x	x	x	x	x
AAS	ASKD - Authorization and Access Control		6.5.8	A4/A7		x	x	x	x	x
AAS	ASKD - Sensitive Data Protection		6.5.3	A6		x	x	x	x	x
AAS	ASKD - Session Management		6.5.10	A2		x	x	x	x	x
AAS	ASKD - Validation and Encoding		6.5.1	A1/A3		x	x	x	x	x
AAS	ASKD - Logging and Audit		6.5.5	A5		x	x	x	x	x
AAS	PCI DSS for Application Security Professionals		PCI DSS	OWASP Top 10	x		x	x	x	x
<b>IMPLEMENTING APPLICATION SECURITY PROGRAMS</b>										
421	Application Security Risk Management				x	x		x		x
450	Integrating Security into Waterfall Projects				x	x		x		x
460	Integrating Security into Agile Projects				x	x		x		x
<b>SECURE TESTING &amp; VERIFICATION</b>										
101	Introduction to Application Security Verification		x	x	x	x	x	x	x	x
411	Effective Security Testing						x	x		
412	Effective Security Code Review						x	x		
420	Threat Modeling and Security Architecture		x		x	x	x			x
<b>SECURE APPLICATION DEVELOPMENT</b>										
<b>Introduction to Secure Coding</b>										
281	Introduction to Secure Coding for Rich Internet Applications					x		x		
282	Introduction to Secure Coding for AJAX Applications					x		x		
283	Introduction to Secure Coding with JAVA					x		x		
284	Introduction to Secure Coding for .NET Applications					x		x		
285	Introduction to Secure Coding in C and C++					x	x	x		

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<b>SECURE APPLICATION DEVELOPMENT</b>									
<b>Input Validation</b>									
110	Input Validation	6.5.1	A1		x	x	x		
180	Buffer Overflows	6.5.2			x	x	x		
211	Input Validation Strategy	6.5.1	A1/A3		x	x	x		x
212	Preventing Injection Attacks	6.5.1	A1		x	x	x		x
213	Preventing Cross-Site Scripting Attacks	6.5.7	A3		x		x		
214	Using Canonicalization and Encoding		A1		x		x		
215	Performing Secure File Upload and Downloads	6.5.1	A4		x		x		
216	Preventing Header Injection	6.5.1	A1		x		x		
331	Understanding DOM-based XSS		A3		x		x		x
<b>Access Control/Authorization</b>									
120	Enforcing Access Control	6.5.8	A7		x	x	x		
221	Access Control Strategy	6.5.8	A7/A4		x	x	x		x
222	Presentation Layer Access Control	6.5.8	A7		x		x		
223	URL-based Access Control	6.5.8	A7		x		x		
224	Business Layer Access Control	6.5.8	A7		x		x		
225	Implementing Data Layer Access Control	6.5.8	A7/A4		x		x		
226	Unsafe Redirects and Forwards		A10		x		x		
227	Clickjacking		A7		x		x		
<b>Authentication</b>									
130	Authenticating Users	6.5.10	A2		x	x	x		
231	Authentication Strategy	6.5.10	A2		x	x	x		x
232	Understanding HTTP Authentication Schemes		A2		x		x		
233	Secure Session Management	6.5.10	A2		x		x		
234	Protecting Credentials		A2		x	x	x		
235	Managing Identity		A2		x	x	x		
236	Preventing Forged Requests (CSRF)	6.5.9	A2		x		x		
<b>Error Handling &amp; Logging</b>									
140	Error Handling and Logging	6.5.5	A5		x	x	x		
241	Handling Security Errors and Intrusion Detection	6.5.5	A5		x	x	x		
242	Effective Security Logging	6.5.5	A5		x	x	x		
<b>Sensitive Data Protection</b>									
150	Protecting Sensitive Data	6.5.3	A6		x	x	x		
251	Introduction to Cryptography	6.5.3	A6	x	x	x	x	x	x
252	Using Cryptography Securely		A6		x	x	x		
253	X.509 Certificates		A6		x		x		

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<b>SECURE APPLICATION DEVELOPMENT</b>									
<b>Secure Communications</b>									
160	Securing Communications	6.5.4	A5			x		x	
261	Using TLS	6.5.4	A5			x		x	
262	Secure Cookie Use		A5			x		x	
263	Using Services Securely	6.5.4	A5			x		x	
264	Using TLS in Java and .NET		A5			x		x	
<b>Security Operations</b>									
170	Hardening Application Platforms and Frameworks		A5			x		x	
271	Hardening Web Servers		A5/A9					x	
272	Hardening Application Servers		A5/A9					x	
273	Using Software Libraries and Components Securely		A9			x	x	x	
<b>Web Services</b>									
291	Introduction to Web Services Security			x		x		x	x
292	Web Services Authentication and Authorization	6.5.8	A2/A4/A7			x		x	x
<b>Secure Mobile Application Development</b>									
311	Understanding Mobile Application Threats		Mobile Top 10	x	x	x		x	x
312	Mobile Application Security - Top 5 Risks		Mobile Top 10	x	x	x		x	x
313	Mobile Application Security for iOS		Mobile Top 10			x		x	x
314	Mobile Application Security - Android		Mobile Top 10			x		x	x
<b>Cloud Security</b>									
500	Introduction to Cloud Security			x	x	x		x	x
501	Security Challenges in the Cloud			x	x	x		x	x
502	Federation and Single Sign-On in the Cloud			x		x		x	x
503	Data Protection and Access Control in the Cloud			x		x		x	x
504	Encryption and Tokenization in the Cloud			x		x		x	x
505	Securing Software Development in the Cloud			x		x		x	
506	Legal, Regulatory and Common Pitfalls in the Cloud			x		x		x	