Instructor-led application security training

Fundamentals, threat modeling, and application security leadership

Whether driven by compliance or security, enterprises face the challenge of building baseline application security fundamentals within their development teams while identifying additional education and training resources to expand their AppSec program. Coalfire built a series of application security-specific courses to supplement unintuitive, checkbox-style eLearning options.

Application security fundamentals

In this baseline training for developers, testers, and savvy leadership, security risks and best practices are arranged in the AppSec domains – from authentication and access control, to input validation and cryptography. Coverage of specific vulnerabilities emphasize those enumerated in the PCI DSS and the OWASP Top 10. Examples of topics include:

- Attacks using parameter tampering and bypassing client validation
- Exploiting session management and authentication flaws
- Persistent and reflected cross-site scripting
- SQL injection
- Operating system command injection

Threat modeling

This course covers multiple approaches for evaluating security threats. You will perform exercises to map data flows of application environments and identify emergent threats – on your application or ours. The course also covers comprehensive threat models of

example systems inspired by real-world enterprises. Examples of key takeaways include how to:

- Identify abuse cases for example systems
- Draw data flows for example systems
- Identify system threats from data flows
- Pinpoint risks in functional security

Application security for leadership

In this course, you will run through scenarios based on real enterprises, devising solutions to bring software risk under control and build an AppSec program. The following areas of application security from a leadership perspective will be examined:

- The root causes, impacts, and costs of application breaches
- What your organization can do to create a software security assurance program to address security in ongoing development efforts
- The myriad regulatory regimes and standards that can impact your organization

Why Coalfire

- Our AppSec consultants have experience in both software engineering and security consulting, which means we're able to deliver modern, actionable guidance on all aspects of application security.

- We conduct more than 1,000 complex projects each year for clients in the technology, healthcare, financial, manufacturing, energy, and retail industries.

- Our team comprises experienced testers of the world's largest cloud service providers, including Amazon, Google, IBM, Microsoft, Oracle, and Salesforce.

- For the past 10 years, we have trained and educated security professionals at Black Hat in the advanced tradecraft we developed.

Build application security capabilities that last.

Learn more about our instructor-led application security training.

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About Coalfire

The world's leading organizations – including the top five cloud service providers and leaders in financial services, healthcare, and retail – trust Coalfire to elevate their cyber programs and secure the future of their business. Number one in compliance, FedRAMP®, and cloud penetration testing, Coalfire is the world's largest firm dedicated to cybersecurity services, providing unparalleled technology-enabled professional and managed services. To learn more, visit **Coalfire.com**.

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