FUNDAMENTALS OF SECURE APPLICATION DEVELOPMENT

2 Days Classroom
2 Days Live Online

Individual: $1295.00

Group: $1195.00

GSA: $1185.00

Credits: 14 PDUs

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www.cprime.com/learning

COURSE OVERVIEW

From proactive requirements to coding and testing, this information security training course covers the best practices any software developer needs to avoid opening up their users, customers, and organization to attack at the application layer. We teach only constantly updated best practices, and our experts answer your questions live in class. Return to work ready to build higher quality, more robustly protected applications.

COURSE OUTLINE

Part 1: Secure Software Development

1. Assets, Threats & Vulnerabilities
2. Security Risk Analysis (Bus & Tech)
3. Secure Dev Processes (MS, BSI...)
4. Defense in Depth
5. Approach for this course

Part 2: The Context for Secure Development

1. Assets to be protected
2. Threats Expected
3. Security Imperatives (int&external)
4. Organization's Risk Appetite
5. Security Terminology
6. Organizational Security Policy
7. Security Roles and Responsibilities
8. Security Training for Roles
9. Generic Security Goals & Requirements

Part 3: Security Requirements

1. Project-Specific Security Terms
2. Project-Related Assets & Security Goals
3. Product Architecture Analysis
4. Use Cases & MisUse/Abuse Cases
5. Dataflows with Trust Boundaries
6. Product Security Risk Analysis
7. Elicit, Categorize, Prioritize SecRqts
8. Validate Security Requirements

Part 4: Designing Secure Software

1. High-Level Design
2. Detail-Level Design

Part 5: Writing Secure Code

1. Coding
2. Early Verification

Part 6: Testing for Software Security

1. Assets to be protected
2. Threats Expected
3. Security Imperatives (int&external)
4. Organization's Risk Appetite
5. Static Analysis
6. Dynamic Analysis
7. Risk-Based Security testing
8. Fuzz Testing (Whitebox vs Blackbox)
9. Penetration Testing (Whitebox vs Blackbox)
10. Attack Surface Review
11. Code audits
12. Independent Security Review

Part 7: Releasing & Operating Secure Software

1. Incident Response Planning
2. Final Security Review
3. Release Archive
4. OS Protections
5. Monitoring
6. Incident Response
7. Penetration Testing

See website for full outline

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We help visionary business leaders compose solutions, execute implementations, and perform against business goals.