

LAPT

LONDON ACADEMY OF PROFESSIONAL TRAINING

CERTIFICATE

ISO 27034SFT — Application Security

ISO Certification Programme



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Reference IIT-SFT-27034SFT • ISO IT & Related Technologies

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AT A GLANCE

REFERENCE	IIT-SFT-27034SFT
AWARD	Certificate
ASSESSMENT	430 marks — 258 to pass (60%)
PREREQUISITES	None
VALIDITY	Lifetime
AWARDING BODY	LAPT — London Academy of Professional Training

CURRICULUM

1

Application Security Fundamentals

5 chapters · 30 classes85 marks

• 1 Understanding Application Security Principles — 6 classes

› 1.1 Identify Key Application Security Principles

› 1.2 Analyze Common Application Vulnerabilities

› 1.3 Evaluate the Role of Threat Modeling in Security

› 1.4 Apply Secure Coding Practices in Development

› 1.5 Assess the Importance of Security Testing Methods

› 1.6 Develop Security Awareness for Application Users

• 2 Threat Modeling and Risk Assessment — 6 classes

› 2.1 Identify Threats in Application Security

› 2.2 Analyze Vulnerabilities in Software Environments

› 2.3 Assess Impact and Likelihood of Threats

› 2.4 Develop Risk Mitigation Strategies

› 2.5 Create a Threat Model for Real-World Applications

› 2.6 Review and Update Risk Assessment Practices

• 3 Secure Software Development Lifecycle (SDLC) — 6 classes

› 3.1 Define the Secure Software Development Lifecycle (SDLC) Model

› 3.2 Identify Key Phases in the Secure SDLC Process

› 3.3 Analyze Security Requirements During the Planning Phase

› 3.4 Implement Security Best Practices in Design and Development

› 3.5 Conduct Security Testing and Vulnerability Assessments

› 3.6 Establish Continuous Improvement Strategies for SDLC Security

• 4 Application Security Testing Techniques — 6 classes

› 4.1 Identify Key Application Security Testing Techniques

› 4.2 Explore Static Application Security Testing (SAST) Methods

› 4.3 Implement Dynamic Application Security Testing (DAST) Practices

› 4.4 Analyze the Role of Interactive Application Security Testing (IAST)

› 4.5 Evaluate Security Testing Tools and Frameworks

› 4.6 Develop a Comprehensive Application Security Testing Strategy

• 5 Implementing Security Controls and Best Practices — 6 classes

› 5.1 Identify and Assess Security Risks in Applications

› 5.2 Implement Security Frameworks for Application Development

› 5.3 Establish Security Controls for Data Protection

› 5.4 Monitor and Test Application Security Posture

› 5.5 Develop Best Practices for Secure Coding

› 5.6 Create an Incident Response Plan for Application Vulnerabilities

• 1 Understanding Application Security Concepts and Frameworks —

6 classes

- › 1.1 Define Key Application Security Terms and Concepts
- › 1.2 Explore Common Security Threats in Software Development
- › 1.3 Analyze Security Frameworks Relevant to Application Security
- › 1.4 Identify the Components of a Secure Application Design
- › 1.5 Evaluate Security Standards and Compliance Requirements
- › 1.6 Implement Best Practices for Secure Application Development

• 2 Identifying Threats and Vulnerabilities in Applications — 6 classes

- › 2.1 Analyze Common Application Threats
- › 2.2 Identify Vulnerability Types in Software
- › 2.3 Assess the Impact of Security Breaches
- › 2.4 Evaluate Risk Assessment Methodologies
- › 2.5 Explore Real-World Application Vulnerability Case Studies
- › 2.6 Implement Strategies for Threat Mitigation

• 3 Secure Software Development Lifecycle (SDLC) Practices — 6

classes

- › 3.1 Identify Key Phases of the Secure SDLC
- › 3.2 Analyze Security Requirements in Software Design
- › 3.3 Implement Threat Modeling Techniques
- › 3.4 Integrate Security Testing Methods in Development
- › 3.5 Establish Secure Code Review Practices
- › 3.6 Develop a Continuous Improvement Plan for Security

• 4 Implementing Security Controls and Countermeasures — 6 classes

- › 4.1 Identify Key Security Vulnerabilities in Application Design
- › 4.2 Assess Threat Models for Your Application Environment
- › 4.3 Implement Authentication Mechanisms to Enhance Security
- › 4.4 Apply Data Protection Techniques for Sensitive Information
- › 4.5 Integrate Logging and Monitoring Features for Incident Response
- › 4.6 Evaluate and Optimize Security Controls in Application Lifecycle

• 5 Conducting Security Testing and Assessment for Applications —

6 classes

- › 5.1 Identify Application Security Requirements
- › 5.2 Explore Common Security Testing Methods
- › 5.3 Develop a Security Testing Plan
- › 5.4 Conduct Static Application Security Testing
- › 5.5 Execute Dynamic Application Security Testing
- › 5.6 Analyze and Report Security Testing Results

• 1 Understanding ISO 27034: Framework and Objectives — 6 classes

- › 1.1 Define the Key Concepts of ISO 27034
- › 1.2 Identify the Core Objectives of ISO 27034 Framework
- › 1.3 Explore the Structure of ISO 27034 Compliance Guidelines
- › 1.4 Analyze the Importance of Application Security in ISO 27034
- › 1.5 Discuss the Roles and Responsibilities in ISO 27034 Compliance
- › 1.6 Implement Best Practices for Adhering to ISO 27034 Standards

• 2 Risk Management and Assessment in Application Security — 6

classes

- › 2.1 Identify Key Risks in Application Security
- › 2.2 Analyze Threat Vectors in Application Environments
- › 2.3 Assess Vulnerabilities in Software Development Life Cycle
- › 2.4 Implement Risk Mitigation Strategies for Applications
- › 2.5 Monitor and Review Risk Management Processes
- › 2.6 Prepare for Compliance Audits in Application Security

• 3 Integrating Security Controls into the Software Development Lifecycle — 6 classes

- › 3.1 Analyze the Importance of Security in the Software Development Lifecycle
- › 3.2 Identify Key Security Controls for Development Phases
- › 3.3 Implement Security Requirements in Design Specifications
- › 3.4 Integrate Security Testing into Development Processes
- › 3.5 Evaluate Security Outcomes and Remediation Strategies
- › 3.6 Communicate Security Practices to Development Teams Effectively

• 4 Testing and Validation of Application Security Measures — 6

classes

- › 4.1 Assess Current Application Security Measures
- › 4.2 Identify Key Testing Methodologies for Application Security
- › 4.3 Develop a Validation Strategy for Security Controls
- › 4.4 Execute Penetration Testing Procedures
- › 4.5 Analyze Testing Results and Interpret Findings
- › 4.6 Implement Continuous Improvement Based on Validation Feedback

• 5 Continuous Improvement and Compliance Monitoring — 6 classes

- › 5.1 Analyze Current Compliance Status Against ISO 27034 Standards
- › 5.2 Identify Gaps in Application Security Compliance
- › 5.3 Develop Continuous Improvement Strategies for Compliance Monitoring
- › 5.4 Implement Automated Tools for Compliance Tracking
- › 5.5 Review and Revise Policies Based on Compliance Monitoring Feedback
- › 5.6 Evaluate the Effectiveness of Continuous Improvement Initiatives

• 1 Fundamentals of Risk Assessment in Application Security — 6

classes

- › 1.1 Define Key Concepts in Risk Assessment for Application Security
- › 1.2 Identify Common Risks Associated with Applications
- › 1.3 Analyze the Impact of Application Vulnerabilities
- › 1.4 Evaluate Risk Assessment Methodologies in Application Security
- › 1.5 Develop a Risk Management Plan for Application Security
- › 1.6 Implement Risk Mitigation Strategies in Application Development

• 2 Identifying Risks in Software Applications — 6 classes

- › 2.1 Define Key Concepts of Risk in Software Applications
- › 2.2 Identify Common Threats in Software Development
- › 2.3 Analyze Vulnerabilities in Existing Software Solutions
- › 2.4 Assess the Impact of Identified Risks
- › 2.5 Prioritize Risks Based on Likelihood and Impact
- › 2.6 Develop Mitigation Strategies for High-Priority Risks

• 3 Analyzing and Prioritizing Risks — 6 classes

- › 3.1 Identify Critical Assets for Risk Assessment
- › 3.2 Conduct a Preliminary Risk Analysis
- › 3.3 Evaluate Potential Threats and Vulnerabilities
- › 3.4 Assess the Impact and Likelihood of Risks
- › 3.5 Prioritize Risks for Effective Management
- › 3.6 Develop a Risk Mitigation Strategy

• 4 Mitigating Risks through Security Controls — 6 classes

- › 4.1 Identify Key Risks in Application Security
- › 4.2 Analyze Vulnerabilities and Threats
- › 4.3 Evaluate the Effectiveness of Current Security Controls
- › 4.4 Prioritize Risks Based on Impact and Likelihood
- › 4.5 Develop Mitigation Strategies for Critical Risks
- › 4.6 Implement and Monitor Security Controls for Continuous Improvement

• 5 Monitoring and Reviewing Risk Management Practices — 6 classes

- › 5.1 Analyze Current Risk Management Practices
- › 5.2 Identify Key Performance Indicators for Risk Assessment
- › 5.3 Evaluate Effectiveness of Monitoring Tools and Techniques
- › 5.4 Conduct a Risk Management Review Meeting
- › 5.5 Develop Action Plans for Risk Mitigation Strategies
- › 5.6 Report Findings and Recommendations for Continuous Improvement