

- Plan, perform, and evaluate security tests from a variety of perspectives
- Evaluate an existing security test suite and identify any additional security tests needed.
- Analyze a given set of security policies and procedures, along with security test results, to determine effectiveness.
- For a given project scenario, identify security test objectives based on functionality, technology attributes and known vulnerabilities.
- Analyze a given situation and determine which security testing approaches are most likely to succeed in that situation.
- Identify areas where additional or enhanced security testing may be needed.
- Evaluate effectiveness of security mechanisms.
- Help the organization build information security awareness.
- Demonstrate the attacker mentality by discovering key information about a target, performing actions on a test application in a protected environment that a malicious person would perform, and understand how evidence of the attack could be deleted.
- Analyze a given interim security test status report to determine the level of accuracy, understandability, and stakeholder appropriateness.
- Analyze and document security test needs to be addressed by one or more tools.
- Understand the role of security standards (including security test standards), where to find them, and how to stay current with security developments worldwide.

With the prevalence of cyber security breaches, it is clear that more attention is needed in testing that security defenses are in place and working effectively. This course and certification covers much more than just penetration testing. Certainly, penetration testing is an important part of security testing, but there are many other threats and vulnerabilities that require other security testing approaches.

## Who Should Attend?

- Security testers
- Software testers who wish to develop a specialty in security testing
- Security administrators who wish to learn how to test new and existing defenses
- Developers who want to learn secure coding techniques
- Project managers who want to learn how security testing fits in the project lifecycle

## ISTQB® Certification & Exam

The cost of the class includes an exam voucher for the ISTQB CT-ST exam.\* Exam vouchers are distributed at the end of the class. Passing the exam will grant you an ISTQB CT-ST certification.

## Prerequisites

You must have obtained an ISTQB Foundation Level Certification (CTFL) to be eligible for the ISTQB® Security Tester (CT-ST) certification.

*\*This purchase does NOT fall under our Coveros guarantee of retaking the class if you do not pass the exam within 30 days of taking the class. This purchase includes just one (1) exam voucher. All additional vouchers will need to be purchased with an exam provider.*

## Course Outline

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## **The Basis of Security Testing**

Security Risks  
Information Security Policies and Procedures  
Security Auditing and Its Role in Security Testing

## **Security Testing Purposes, Goals and Strategies**

Introduction  
The Purpose of Security Testing  
The Organizational Context  
Security Testing Objectives  
The Scope and Coverage of Security Testing Objectives  
Security Testing Approaches  
Improving the Security Testing Practices

## **Security Testing Processes**

Security Test Process Definition  
Security Test Planning  
Security Test Design  
Security Test Execution  
Security Test Evaluation  
Security Test Maintenance

## **Security Testing Throughout the Software Lifecycle**

Role of Security Testing in a Software Lifecycle  
The Role of Security Testing in Requirements  
The Role of Security Testing in Design  
The Role of Security Testing in Implementation Activities  
The Role of Security Testing in System and Acceptance  
Test Activities  
The Role of Security Testing in Maintenance

## **Testing Security Mechanisms**

System Hardening  
Authentication and Authorization  
Encryption  
Firewalls and Network Zones  
Intrusion Detection  
Malware Scanning  
Data Obfuscation  
Training

## **Human Factors in Security Testing**

Understanding the Attackers  
Social Engineering  
Security Awareness

## **Security Test Evaluation and Reporting**

Security Test Evaluation  
Security Test Reporting

## **Security Testing Tools**

Types and Purposes of Security Testing Tools  
Tool Selection

## **Standards and Industry Trends**

Understanding Security Testing Standards  
Applying Security Standards  
Industry Trends

**Price:** \$2195