

ISTQB Advanced Security Tester

Duration: 4 Days **Course Code: ISTQBA-ST**

Overview:

This four-day accredited course prepares you for the exam “ISTQB Advanced Security Tester” and meets the requirements as set by ISTQB. You will gain detailed knowledge of security risks, vulnerabilities and defenses in order to create and perform tests that validate the effectiveness of existing and new security defenses in a given context. With the prevalence of cyber security breaches, it is clear that more testing is needed to be sure that security defenses are in place and working effectively.

Target Audience:

The training is aimed at people who already have achieved an advanced point in their careers in software testing and wish to develop their expertise in security testing.
This training is meant for: 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 Managers who want to learn how security testing fits in the project lifecycle

Objectives:

- **After this training, you can (a.o.):**
 - Plan, perform and evaluate security tests from a variety of perspectives
 - Analyze a given situation and determine which security testing approaches are most likely to succeed in that situation
 - Evaluate effectiveness of security mechanisms, such as firewalls and encryption
 - Understand the attacker mentality so that effective defenses can be established and tested
 - Know how to deal with the human risks in Information Security
 - Analyze and document security test needs to be addressed by one or more tools
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Prerequisites:



Testing and Certification



Content:

Structure of this training

The training lasts four days in which you will learn all about security testing. In the Virtual Classroom these will be four days of 5 hour online meetings.

The exam consists of 45 multiple-choice questions and will take place on an extra day after the course. With a score of 65% or higher you get the ISTQB Advanced Security Tester Certificate.

Course outline

The Basis of Security Testing

- Security Risks
- Information Security Policies
- Security Auditing

Security Testing Purposes, Goals and Strategies

- Security Testing
- Purpose
- Objectives
- Scope and Coverage
- Approaches
- Improving the Security Testing Practices

Security Testing Processes

- Security Test Process Definition
- Security Test Maintenance

Security Testing Throughout the Software Lifecycle

- Role of Security Testing in a Software Lifecycle

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 Test Evaluation and Reporting

Security Testing Tools

- Types and Purposes
- Tool Selection

Standards and Industry Trends

- Understanding and Applying Security Testing Standards
- Industry Trends

Further Information:

For More information, or to book your course, please call us on 00 20 (0) 2 2269 1982 or 16142

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