

ISTQB Advanced Security Tester

Learn via: **Classroom**

Duration: **4 Days**

Overview

With the ever-increasing numbers of security breaches, both human and machine-based, significantly more understanding is required from testers to ensure that the proper quality assurance measures are in place for assuring the security of IT systems. This intensive four-day course contains lectures, exercises and practical work to describe and illustrate best practices in security testing.

Who is it for?

The ISTQB Advanced Security course is for Technical Testers, Security Testers, Security Co-ordinators and Managers, plus testers and test managers who are serious about including security aspects into their test plans or who want to specialise.

Prerequisites

- A Certificate at ISTQB Foundation level must have been awarded for candidates to sit this course
- It is recommended that candidates have at least three-years testing experience before attempting the course and exam.

Outline

- Module 1 - The Basis of Security Testing
 - Security Risks
 - Information Security Policies and Procedures
 - Security Auditing and Its Role in Security Testing.
 - Security Testing Approaches
 - Improving the Security Testing Practices
 - ISTQB Advanced Security Tester Certification Course.
- Module 2 - 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
- Module 3 - Security Testing Processes
 - Security Test Process Definition
 - Security Test Planning
 - Security Test Design
 - Security Test Execution
 - Security Test Evaluation
 - Security Test Maintenance
- Module 4 - 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.
- Module 5 - Testing Security Mechanisms
 - System Hardening
 - Authentication and Authorization
 - Encryption
 - Firewalls and Network Zones
 - Intrusion Detection
 - Malware Scanning
 - Data Obfuscation
 - Training.
- Module 6 - Human Factors in Security Testing

- Understanding the Attackers
- Social Engineering
- Security Awareness.
- Module 7 - Security Test Evaluation and Reporting
 - Security Test Evaluation
 - Security Test Reporting.
- Module 8 - Security Testing Tools
 - Types and Purposes of Security Testing Tools
 - Tool Selection.
- Module 9 - Standards and Industry Trends
 - Understanding Security Testing Standards
 - Applying Security Standards
 - Industry Trends.