

# ISTQB Advanced Security Tester

Learn via: **Classroom / Virtual Classroom / Online**

Duration: **4 Day**

## **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.