

[IASTC]: ISTQB Advanced Security Tester Certificate

Length : 3 Days
Delivery Method : Instructor-led (Classroom)

Course Overview

Develop a truly niche skillset in security testing and gain recognition as an ISTQB Advanced Security Testing Professional.

Are you an experienced tester wishing to further develop your expertise in security testing? You've found it! The ISTQB Advanced Level Security Tester is an internationally recognised qualification that will help you better understand security testing as well as execute it.

This course will help you plan, perform and evaluate security tests from a variety of perspectives, including policy-based, risk-based, standards-based, requirements based and vulnerability-based. By the conclusion of the course, you will be able to align security test activities with project lifecycle activities, analyse effectiveness of risk assessment techniques and determine the best security test tool based on specified needs.

Audience Profile

- Experienced Testers wanting to differentiate themselves by building skills in security testing.
- Security Testers wanting to advance their skills and align them with industry best practice.
- Security Testers wanting to accredit their security testing skills for recognition among employers, clients and peers.

At Course Completion

- Plan, perform and evaluate security tests from a variety of perspectives.
- Evaluate an existing security test suite and identify any additional security tests needed.
- Analyse 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.
- Analyse 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 organisation build information security awareness.
- Analyse a given interim security test status report to determine the level of accuracy, understandability, and stakeholder appropriateness.

AVANTUS TRAINING PTE LTD

80 Jurong East Street 21 #04-04 Devan Nair Institute Singapore 068897

Main Line: +65 6661 0888 | Fax: +65 6661 0886

Email: enquiries@AvantusTraining.com

www.AvantusTraining.com

Assessment

This exam is conducted online, comprised of 45 multiple choice questions, with a pass mark grade of 65% to be completed within 120 minutes. Participants that take the exam not in their spoken language, will receive additional 25% time, and will have 30 minutes more, or a total of 150 min.

Course Outline

Module 1: The Basis of Security Testing

Lessons

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

Module 2: Security Testing Purposes, Goals and Strategies

Lessons

- 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

Module 3: Security Testing Processes

Lessons

- 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

Lessons

- The 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

Lessons

- System Hardening
- Authentication and Authorisation
- Encryption

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- Firewalls and Network Zones
- Intrusion Detection
- Malware Scanning
- Data Obfuscation
- Training

Module 6: Human Factors in Security Testing**Lessons**

- Understanding the Attackers
- Social Engineering
- Security Awareness Security Test Evaluation and Reporting
- Security Test Evaluation
- Security Test Reporting

Module 7: Security Testing Tools**Lessons**

- Types and Purposes of Security Testing Tools
- Tool Selection

Module 8: Standards and Industry Trends**Lessons**

- Understanding Security Testing Standards
- Applying Security Standards
- Industry Trends

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