

# ISTQB® Certified Tester Advanced Level - Security Tester



In our certification training course we educate you being an ISTQB® Security Tester (CTAL-ST). Our training contents correspond to the current CTAL-ST curriculum. We offer our seminars in cooperation with Integrata Cegos.

## TARGET GROUP

- Software Testers and project team members, who are working on cyber security solutions and want to deepen their knowledge in security testing

## REQUIREMENTS

- Extensive experience in software testing, project management and software development (minimum of 36 months verifiable experience)
- ISTQB® Foundation certificate e.g. after visiting the training course of CGI

## TRAINING GOALS

- Knowing concepts of security testing
- Planning, execution und evaluation of security tests
- Application of risk assessment techniques
- Analysis of the effectiveness of security policies and processes
- Creation of security awareness in the company
- Analysis and selection of suitable security test tools

## TRAINING CONTENT

The training covers the following topics:

- **Basics of security testing:** Security risks - Security policies and processes - Security audits and their role within security testing
- **Purposes, objectives and strategies of security testing:** Purpose of security testing - Corporate context - Objectives of security testing - Scope and coverage of security test objectives - Security testing procedure - Optimization of security testing practices



## ISTQB® CERTIFIED TESTER ADVANCED LEVEL - SECURITY TESTER (CTAL-ST)

- Basics of security testing
- Purposes, objectives and strategies of security testing
- Security testing process
- Security testing throughout the software life cycle
- Testing of security mechanisms
- Human factors in IT security testing
- Evaluation of security tests and reports
- Security test tools
- Standards and industry trends

- **Security testing process:** Definition, planning, execution, evaluation and maintenance of security tests
- **Security testing throughout the software life cycle:** Role of security testing in the requirement specification, design, implementation, system and acceptance tests and in maintenance
- **Testing of security mechanisms:** System hardening - Authentication and authorization - Encryption - Firewalls and network zones - Attack detection - Malware scan - Data masking - training
- **Human factors in IT security testing:** Understanding the attackers - Social engineering - Security awareness
- **Evaluation of security tests and reports:** Evaluation and final reporting of security tests
- **Security test tools:** Types and functions - Tool selection
- **Standards and industry trends:** Security testing standards and their application - Industry trends

## METHODS

- Lecture, discussion, exercises and case studies

## NOTES

- It is highly recommended working on the learned material and exercises for exam preparation
- During the course additional documents may be sent by the trainer, therefore the access to your e-mails could be helpful

## DURATION, PLACES, DATES

- The training lasts three days (18 hours)
- The certification examinations for the ISTQB® Certified Tester Advanced Level - Security Tester can be booked individually online or taken at a test center.

## ABOUT CGI

We are a global service provider for IT and business processes with a total of more than 90.000 employees. At 400 locations, we offer holistic, scalable and sustainable services for 21 industries - globally supported and locally implemented. Our portfolio includes top-level IT and business consulting, systems integration, managed IT, business process services and intellectual property. The focus of our strategic consulting is to improve business agility and change management; our IP serves to accelerate innovation.

With more than 10,000 colleagues worldwide in the quality and test environment, with own test solutions and several TestFactories in DE, CGI is one of the leading service providers in SW quality management and SW testing. Benefit from our years of cross-industry experience.

## For more information

Visit [cgi.com](https://www.cgi.com)

Email us at [info@cgi.com](mailto:info@cgi.com)