

Training Course Content

ISTQB Certified Test Automation Engineer

Duration : 3 days

Languages : EN & FR

This training is aimed at people directly involved in the design of automated tests, their execution and collaboration with the Test Manager.

Learning Objectives

- Contribute to the development of a plan to integrate automated testing within the testing process
- Evaluate tools and technology for automation best fit to each project and organization
- Create an approach and methodology for building a test automation architecture (TAA)
- Design and develop (new or modifies) test automation solutions that meet the business needs
- Enable the transition of testing from a manual to an automated approach
- Create automated test reporting and metrics collection

Pre-requisites

Certification at the ISTQB Foundation level is required. Some practical experience working on software development projects or as a test specialist. Professionals who can read and understand code.

Audience

This course is ideal for software testers, test analysts, test engineers, test managers, software developers, professionals in software testing (project management, consultants, developers, test practitioners) who wish to specialize in test automation.

Course Content

- 1. Introduction and Objectives for Test Automation**
 - Purpose of Test Automation. Success Factors in Test Automation
- 2. Preparing for Test Automation**
 - SUT Factors Influencing Test Automation. Tool Evaluation and Selection. Design for Testability and Automation
- 3. The Generic Test Automation Architecture**
 - Introduction to gTAA, TAA Design, TAS Development
- 4. Deployment Risks and Contingencies**
 - Selection of Test Automation Approach and Planning of Deployment/Rollout. Risk Assessment and Mitigation Strategies. Test Automation Maintenance
- 5. Test Automation Reporting and Metrics**
 - Selection of TAS Metrics, Implementation of measurements, logging of the TAS and the SUT. Test Automation Reporting
- 6. Transitioning Manual Testing to an Automated Environment**
 - Criteria for Automation. Identify steps needed to implement Automation within regression Testing. Factors to consider when implementing Automation within new feature Testing. Factors to consider when implementing Automation of Confirmation Testing
- 7. Verifying the TAS**
 - Verifying Automated Test Environment Components. Verifying the Automated Test Suite

Practical exercises

This training consists of practical exercises to illustrate the subjects discussed and provides trainees with the opportunity to learn through practice.

Trainer skills

Our experts who run our training courses or those we organize with a partner are specialists in the subjects covered. They are validated by our internal teams, both in terms of business knowledge and pedagogy, for each course they teach. They have at least five to ten years of experience in their field and hold or have held positions covering business topics.