

ISTQB® CTAL Test Automation Engineer

The **Advanced Level Test Automation Engineer** qualification is aimed at people who have already achieved an advanced point in their careers in software testing and wish to develop further their expertise in automation testing. The modules offered at the **Advanced Level** cover a wide range of testing topics.

To get the **Advanced Level** certification, candidates must hold the **Foundation Certificate** and have sufficient practical experience.

CONTENTS

Introduction & Objectives for Test Automation Purpose of Test Automation Test Automation in the Software Development Lifecycle	Implementing & Deployment Strategies for Test Automation Integration to CI/CD Pipelines
Preparing for Test Automation Understand the Configuration of an Infrastructure to Enable Test Automation Evaluation Process for Selecting the Right Tool & Strategies	Test Automation Reporting & Metrics Collection, Analysis & Reporting of Test Automation Data
Test Automation Architecture Design Concepts Leveraged in Test Automation	Verifying the Test Automation Solution Verification of the Test Automation Infrastructure
Implementing Test Automation Test Automation Development Risks Assessment with Test Automation Development Test Automation Solution Maintainability	Continuous Improvement Continuous Improvement Opportunities for Test Automation

EXAM STRUCTURE

* 43 points or more;

** Only for participants taking the exam in a language other than their mother tongue;

*** Each correct answer can have a value of 1 to 3 points.



BUSINESS OUTCOMES

- Describe the purpose of test automation;
- Understand test automation through the software development lifecycle;
- Understand the Configuration of an Infrastructure to Enable Test Automation;
- Learn the evaluation process for selecting the right tools and strategies;
- Understand design concepts for building modular and scalable test automation solutions;
- Select an approach, including a pilot, to plan test automation deployment within the software development lifecycle;
- Design and develop (new or modified) test automation solutions that meet technical needs;
- Consider scope and approach of test automation and maintenance of testware;
- Understand how automated tests integrate within CI/CD pipelines;
- Understand how to collect, analyze, and report on test automation data in order to inform stakeholders;
- Verify the test automation infrastructure;
- Define continuous improvement opportunities for test automation;

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