

ISTQB® Certified Tester Advanced Level

Test Automation Engineering v2.0

(CTAL-TAE)

About the Course

The Test Automation Engineer (TAE) course focuses on advanced skills involved in designing, developing and maintaining test automation solutions. TAE is designed to study the specific correlation of automation with domain areas such as test management, configuration management, defect management, software development processes, and quality assurance. This course is aimed at anyone interested to enhance their knowledge in testing, automated tools and frameworks, as well as those keen on designing and developing solutions to perform automation tests.

Course Outline

► Chapter 1: Introduction and Objectives for Test Automation

- 1.1 Purpose of Test Automation
- 1.2 Test Automation in the Software Development Lifecycle

► Chapter 2: Preparing for Test Automation

- 2.1 Understand the Configuration of an Infrastructure to Enable Test Automation
- 2.2 Evaluation Process for Selecting the Right Tools and Strategies

► Chapter 3: Test Automation Architecture

- 3.1 Design Concepts Leveraged in Test Automation

► Chapter 4: Implementing Test Automation

- 4.1 Test Automation Development
- 4.2 Risks Associated with Test Automation Development
- 4.3 Test Automation Solution Maintainability

► Chapter 5: Implementation and Deployment Strategies for Test Automation

- 5.1 Integration to CI/CD Pipelines

► Chapter 6: Test Automation Reporting and Metrics

- 6.1 Collection, Analysis and Reporting of Test Automation Data

► Chapter 7: Verifying the Test Automation Solution

- 7.1 Verification of the Test Automation Infrastructure

► Chapter 8: Continuous Improvement

- 8.1 Continuous Improvement Opportunities for Test Automation

By the end of the course, participants will be able to:

- Incorporate automated testing within testing processes during development stages
- Assess tools and technology required to cater for each project
- Design and develop enhanced or new test automation solutions based on business requirements
- Transition testing methods; to shift from manual to automated
- Generate automated test reports and maintaining the testing test systems

Pre-Requisites candidates must hold:

ISTQB® Certified Tester Foundation Level (CTFL)

Practical experience in software testing and automation is strongly recommended.

Certification Partner:



DURATION

3
Days

MODE

Online
or
F2F

Custommedia Sdn. Bhd.

Lot 1-G, Jalan Kenari 13a,
Bandar Puchong Jaya,
47100 Puchong,
Selangor

+603-8082 9680

+6011 5112 4480

academy@custommedia.my

custommediaacademy.my

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