

# ISTQB® Advanced Level, Test Automation Engineer (CTAL-TAE), Certification

Hands-on course of 3 days - 21h

Ref.: ATQ - Price 2024: €2 490 (excl. taxes)

## EDUCATIONAL OBJECTIVES

At the end of the training, the trainee will be able to:

- Know the potential benefits of automation
- Be able to identify which tests can be automated
- Be able to identify and select suitable tools given the context
- Set up a test automation strategy

## CERTIFICATION

A 40-question multiple-choice exam will be taken, with a 90-minute limit (in English or French). Getting 65% right is required to pass. This exam is proctored by a GASQ examiner.

## THE PROGRAMME

last updated: 06/2022

### 1) Introduction to test automation

- Overview and feedback on the goals and benefits of automation.
- Highlighting the risks of automation.
- Overview of what makes a test automation project successful.

*Storyboarding workshops*: Discussions on participants' expectations and experience.

### 2) Preparing test automation

- Identifying the right automation solution for the system being tested.
- Selecting the right method and tool.
- Learning how to design so as to guarantee testability and facilitate automation.

*Understanding the need to anticipate the automation project in order to optimize it.*

### 3) Generic architecture for test automation

- Overview of the generic architecture and different layers.
- Different approaches to test automation.
- Development of the test automation solution.

*Based on a real-world example, identify different automation levels.*

### 4) Risks from deploying automation and contingencies

- Selecting the automation approach and managing its implementation.
- Managing the main risks.
- Maintainability and maintenance of the automated testing solution.

*Group discussion*: Identifying the risks of automation and possible contingencies.

### 5) Metrics and automation tracking

- Identifying and classifying good metrics.
- Setting up the measurement and tracking system.
- Recording and analyzing the results of the measurements.
- Automating the measurement and tracking of metrics.

*Hands-on work*: Defining the method for tracking test automation and metrics for doing so.

### 6) Switching from manual tests to automated tests

- Defining automation criteria.

## TRAINER QUALIFICATIONS

The experts leading the training are specialists in the covered subjects. They have been approved by our instructional teams for both their professional knowledge and their teaching ability, for each course they teach. They have at least five to ten years of experience in their field and hold (or have held) decision-making positions in companies.

## ASSESSMENT TERMS

The trainer evaluates each participant's academic progress throughout the training using multiple choice, scenarios, hands-on work and more. Participants also complete a placement test before and after the course to measure the skills they've developed.

## TEACHING AIDS AND TECHNICAL RESOURCES

- The main teaching aids and instructional methods used in the training are audiovisual aids, documentation and course material, hands-on application exercises and corrected exercises for practical training courses, case studies and coverage of real cases for training seminars.
- At the end of each course or seminar, ORSYS provides participants with a course evaluation questionnaire that is analysed by our instructional teams.
- A check-in sheet for each half-day of attendance is provided at the end of the training, along with a course completion certificate if the trainee attended the entire session.

## TERMS AND DEADLINES

Registration must be completed 24 hours before the start of the training.

## ACCESSIBILITY FOR PEOPLE WITH DISABILITIES

Do you need special accessibility accommodations? Contact Mrs. Fosse, Disability Manager, at [psh-accueil@ORSYS.fr](mailto:psh-accueil@ORSYS.fr) to review your request and its feasibility.

- Management for regression tests.
  - Management for testing new features.
- Role-playing : Based on a set of manual tests, define a strategy for migrating to a set of automated tests.*

#### 7) Taking the certification exam

- Exam supervised by the GASQ.
  - Exam
  - Multiple-choice (40 questions in 90 minutes).
- Verifying automated testing components and scripts.*

#### 8) Continual improvement approaches.

- Adapting to changes in the tested system and its environment.

## DATES

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### REMOTE CLASS

2024 : 03 Jul, 30 Sep