# PSTQB
## ASSOCIAÇÃO PORTUGUESA
### DE TESTES DE SOFTWARE

# ISTQB® Certified Tester 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

### Preparing for Test Automation
Understand the Configuration
of an Infrastructure to Enable Test Automation

Evaluation Process
for Selecting the Right Tool & Strategies

### Test Automation Architecture
Design Concepts Leveraged in Test Automation

### Implementing Test Automation
Test Automation Development

Risks Assessment with Test Automation Development

Test Automation Solution Maintainability

### Implementing & Deployment Strategies for Test Automation
Integration to CI/CD Pipelines

### Test Automation Reporting & Metrics
Collection, Analysis & Reporting
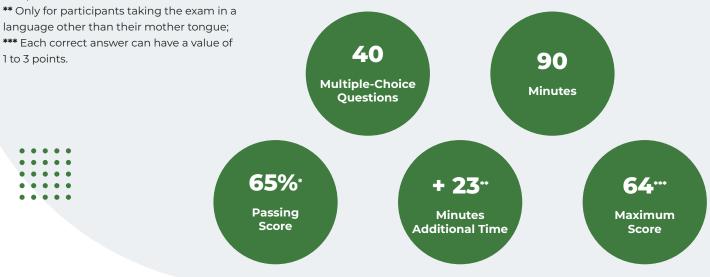of Test Automation Data

### Verifying the Test Automation Solution
Verification of the Test Automation Infrastructure

### Continuous Improvement
Continuous Improvement Opportunities
for Test Automation

# EXAM STRUCTURE

**40**
Multiple-Choice Questions

**90**
Minutes

**65%\***
Passing Score

**+ 23\*\***
Minutes Additional Time

**64\*\*\***
Maximum Score

# 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;

*For more information, please contact: exames@pstqb.pt*

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