


# ISTQB® CTAL Test Manager

 Remote/Presental Exam

 English, German & French

 258,30€

 Associate Price

**246€**

The amounts mentioned include VAT at the normal rate in force.

The ISTQB® Advanced Level Test Management (CTAL-TM) certification provides the knowledge and competencies to take responsibility for managing all the testing activities across the software development lifecycle. It covers everything from how to design a suitable test approach for the project based on the organizational test strategy to building a test team or testing competencies to complete the necessary testing.

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

## CONTENTS

### Managing the Test Activities

#### The Test Process

Test Planning Activities

Test Monitoring & Control Activities

Test Completion Activities

#### The Context of Testing

Test Stakeholders

Importance of Stakeholders Knowledge in Test Management

Test Management in Hybrid Software Development Model

Test Management Activities for Various Lifecycle Models

Test Management Activities at Various Test Levels

Test Management Activities for Different Test Types

Test Management Activities to Plan, Monitor & Control

#### Test Tools

Good Practices for Tool Introduction

Technical & Business Aspects for Tool Decisions

Selection Process Considerations & Return on Investment Evaluation

Tool Lifecycle

Tool Metrics

#### Risk-Based Testing

Testing as Risk Mitigation Activity

Identification of Quality Risks

Quality Risks Assessment

Quality Risk Mitigation Through Appropriate Testing

Techniques for Risk-Based Testing

Success Metrics & Difficulties Associated with Risk-Based Testing

#### Project Test Strategy

Choosing a Test Approach

Analyzing the Organizational Test Strategy, Project Context & Other Aspects

Definition of Test Objectives

#### Improving the Test Process

The Test Improvement Process (IDEAL)

Model-Based Test Improvement

Analytical-Based Test Process Improvement Approach

Retrospectives

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## CONTENTS

Managing the Product	
<b>Test Metrics</b> Metrics for Test Management Activities Monitoring, Control & Completion Test Reporting	<b>Defect Management</b> Defect Lifecycle Cross-Functional Defect Management Specifics of Defect Management in Agile Teams Defect Management Challenges in Hybrid Software Development Defect Report Information Defining Process Improvement Actions Using Defect Information
<b>Test Estimation</b> Estimating What Activities Testing Will Involve Factors Which May Influence Test Effort Selection of Test Estimation Techniques	
Managing the Test Team	
<b>The Test Team</b> Typical Skills within Four Areas of Competence Analyze Required Test-Team Member Skills Assessing Test Team Member Skills Developing Test Team Member Skills Management Skills Required to Manage a Test Team	<b>Stakeholder Relationship</b> Cost of Quality Cost-benefit Relationship of Testing

## EXAM STRUCTURE

\* 58 points or more;

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

\*\*\* Each correct answer equals 1 point.



## BUSINESS OUTCOMES

- Manage testing in various software development projects by applying test management processes established for the project team or test organization;
- Identify test stakeholders and software development lifecycle models that are relevant in a given context;
- Organize risk identification and risk assessment sessions within any software development lifecycle and use the results to guide testing to meet the test objectives;
- Define a project test strategy consistent with the organizational test strategy and project context; Continuously monitor and control testing to achieve project goals;
- Assess and report test progress to project stakeholders;
- Identify necessary skills and develop those skills within your team;
- Prepare and present a business case for testing in different contexts that outlines the costs and expected benefits;
- Lead test process improvement activities in projects or software development product streams and contribute to organizational test process improvement initiatives;
- Plan the test activities including the required test infrastructure and estimate the effort required to test;
- Create defect reports and a defect workflow suitable for a software development lifecycle.

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