

# ISTQB Certified Tester Advanced Level Test Manager (CTAL-TM)



- Integrate testing into your software development process
- Establish a realistic test approach and strategy
- Understand the Test Manager's role in reviews
- Plan, estimate, and schedule the testing effort
- Dynamically monitor, manage, and report testing activities
- Understand the Test Manager's role in defect management
- Plan and implement test automation
- Measure test effectiveness and project progress
- Evaluate and improve your test process
- Develop new skills to lead your test team

The ISTQB® *Advanced Tester Certification—Test Manager* training course expands on the test techniques and methods introduced in the ISTQB Foundation certification course and addresses those areas of the ISTQB advanced syllabus specifically related to the Advanced Test Management certification.

The course focuses on the key areas that are vital for successful test management: the foundations of software testing, test management, standards and test improvement processes, and people skills.

Specific topics covered include testing as part of the software development lifecycle, metrics, test documentation, risk analysis, estimation, test management issues, test automation, process improvement models, individual skills for testers and managers, team dynamics, leadership, and motivation.

This course is filled with hands-on exercises to help you practice the methods and techniques taught in the course. This course covers the syllabus for the Advanced Test Management certification and will help you prepare for the exam.

## Who Should Attend?

- Individuals who have taken the ISTQB Certified Tester—Foundation Level training and wish to expand their knowledge and skills into more advanced areas
- Individuals who have received the ISTQB Foundation Level certification, have met the criteria for taking the advanced certification exams, and wish to prepare for those exams.
- Anyone wishing to learn more about advanced testing topics

## ISTQB® Certification & Exam

The International Software Testing Qualifications Board (ISTQB) is the world's most widely-recognized certification of software testing skills and knowledge. Founded in 2002, the ISTQB is a not-for-profit association that has issued more than 750,000 certifications in 129 countries around the globe. The ISTQB Software Tester Certification—Foundation Level (CTFL) is a prerequisite for the ISTQB Certified Tester Advanced Level Test Manager (CTAL-TM) exam. In order to be eligible to take any of the Certified Tester—Advanced Level (CTAL) exams, potential examinees must submit proof of Certified Tester—Foundation Level (CTFL) certification.

For public virtual classes, the ISTQB Certified Tester Advanced Level Test Manager (CTAL-TM) exam fee is an additional \$260 and is not included in the course price. You have the option to add on this exam voucher when you register for the class. If you choose to add on the exam voucher, it will be emailed to you upon completion of the course. If you do not choose to add-on the voucher when purchasing this class, you must reach out to an exam provider

directly if you wish to take an exam later.

For public virtual classes added on to a Techwell virtual conference pass purchase, the class fee includes the cost of an exam voucher which will be sent to you upon completion of the class. If you do not wish to take the exam, please reach out to customer service before or after completing this purchase. Voucher refunds will be allowed before the class start date.

For in-person public classes, the exam voucher is part of your course fee. The exam voucher and instructions will be emailed to you upon completion of the course.

Please reach out to client support with any questions [clientsupport@coveros.com](mailto:clientsupport@coveros.com) [1].

## Course Outline

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### 1.1 Fundamental Test Process

#### 1.2.1 Test Planning

Activity timing

#### 1.2.2 Test Monitoring and Control

#### 1.3 Test Analysis

Advantages of Detailed Test Conditions

Disadvantages of Detailed Test Conditions

When Are Detailed Test Conditions Effective?

#### 1.3 Test Analysis Exercise

#### 1.4 Test Design

Mapping test cases to requirements

Inventory tracking matrix

#### 1.4 Test Design Exercise

#### 1.5 Test Implementation

Sequence of Test Execution

Disadvantages of Early Test Implementation

Advantages of Early Test Implementation

#### 1.5 Test Implementation Exercise

#### 1.6 Test Execution

#### 1.6 Test Execution Exercise

#### 1.7 Evaluating Exit Criteria and Reporting

#### 1.8 Test Closure Activities

Test Completion

Test Artifact Handover

Lessons Learned

#### 1.8 Test Closure Activities Exercise

### 2.2 Test Management in Context

Understanding Stakeholders

Who Are the Stakeholders?

Other SDLC Activities and Products

Alignment of Test Activities

Sequential Models

Additional Test Levels

Elements of a Test Level

Levels of Testing Within the Lifecycle

### 2.9 Managing the Application of Industry Standards (continued)

Sample ISO standards

IEEE

Example of national standard

Domain-Specific standards

CMMI – Capability Maturity Model Integration

PMI, PRINCE2 and ITIL

Considerations when using standards

### 2.9 Managing the Application of Industry Standards

#### Example 1

#### 3.2 Management Reviews and Audits

Key Characteristics

Audits

Key Characteristics of Audits

#### 3.3 Managing Reviews

Formulating a Review Strategy

Addressing Reviews During Test Planning

Measuring the Effectiveness of Reviews

#### 3.3 Managing Reviews Exercise

#### 3.4 Metrics for Reviews

Metrics for Product Evaluation

Metrics for Process Evaluation

#### 3.4 Metrics for Reviews Exercise

#### 3.5 Managing Formal Reviews

Characteristics of a Formal Reviews

Fulfillment of Prerequisites

#### 4.2 Defect Lifecycle and SDLC

Economics of test and failure

Defect Workflow and States

Cross-Functional Defect Management

#### 4.2 Defect Lifecycle and SDLC Exercise

#### 4.3 Defect Report Information

Defect Data

Standards for Defect Reporting

Managing Non-Functional Testing  
Integrating Non-Functional Tests into SDLC  
Benefits and Challenges of Experience-Based Testing  
Managing Experience-Based Testing  
2.2 Stakeholder Exercise  
2.3 Risk-Based Testing  
Quality Risks  
Risk Identification  
Categorization of Risk  
Light-weight Risk-Based Testing Techniques  
Heavy-weight Risk-Based Testing Techniques  
Measuring Success of Risk-Based Testing  
Techniques for Test Selection  
2.3 Risk-Based Testing Exercise  
2.4 Test Documentation  
Test Documentation  
Test policy  
Test strategy  
Master test plan  
Level test plan  
Test Policy  
Project Risk Management  
Examples of Project Risk Mitigation  
Managing Project Risk  
2.4 Test Documentation Exercise  
2.5 Test Estimation  
Factors that influence test estimation  
How good is our industry (at estimating)?  
2.5 Test Estimation Exercise  
2.6 Defining and Using Test Metrics  
What makes a good measure?  
Metrics for test closure  
Using metrics  
Using metrics for test control  
A sample tester's dashboard  
*Exercise - Metrics*  
2.6 Defining and Using Test Metrics Exercise  
2.7 Business Value of Testing  
Quantitative value of testing  
Economics of test and failure  
Qualitative value of testing  
Cost of (poor) quality  
2.7 Business Value of Testing Exercise  
2.8 Distributed, Outsourced, and Insourced Testing  
2.9 Managing the Application of Industry Standards  
Sources of standards  
International standards

ISO 9126  
IEEE 829  
IEEE 1044  
Orthogonal defect classification  
4.3 Defect Report Information Exercise  
4.4 Assessing Process Capability  
Using Defects for Process Improvement  
5.2 Test Improvement Process  
Why test process improvement models?  
Process assessment  
Process capability determination  
Process improvement  
Process assessment  
Types of process improvement models  
5.3 Improving the Test Process  
Test Improvement Models  
Improving the Testing Process  
Change process steps: IDEAL  
5.3 Improving the Test Process Exercise  
5.4 Improving the Test Process with TMMi  
5.5 Improving the Test Process with TPI Next  
5.6 Improving the Test Process with CTP  
5.7 Improving the Test Process with STEP  
6.0 Test tools and automation  
6.2 Tool Selection  
6.3 Tool Lifecycle  
6.3 Tool Metrics  
7.0 People skills  
7.2 Individual Skills  
Individual skills – Testers  
Individual Skills – User View  
Individual Skills – Software Development Process  
Individual Skills – Test Techniques  
Individual Skills – For Test Managers  
Individual Skills – Interpersonal Skills  
Building the Perfect Team  
Skills Assessment  
7.2 Individual Skills Exercise  
7.3 Test Team Dynamics  
Test Team Dynamics – New Staff Members  
Technical Skills-Hard Skills  
Technical Skills-Soft Skills  
7.4 Testing within an Organization  
7.5 Motivation  
Motivation and Morale  
Motivation and Metrics  
7.6 Communications

**Price:** \$2645