



## Advanced Tester Certification—Test Manager



- 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. For more information regarding the criteria for taking the advanced examinations, go to [www.ASTQB.org](http://www.ASTQB.org) [1].
- Anyone wishing to learn more about advanced testing topics

### Pre-Qualification for the Advanced Certification 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
- Establish an account in the [ASTQB WebAssessor](#) [2]
- While ASTQB no longer requires students to document a minimum of 3 years' experience, it is still strongly recommended that students have relevant experience and an understanding of the Advanced level learning objectives.

CTAL exams are not given at the end of class. After pre-qualification is completed, students receive an ASTQB exam voucher good for one year to use at an [exam center of their choice](#) [3]. To learn more about Advanced Tester Certification, or to schedule a personal certification planning consultation with one of our Training Advocates, [contact our Client Support team](#) [4].

### Exam Retakes

The ASTQB (American Software Testing Qualifications Board) is currently offering free retakes of an ISTQB Advanced Level exam for professionals who meet certain criteria. To learn more about this offer, visit [ASTQB.org](http://ASTQB.org) [5].

#### Course Outline:

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

2.9 Managing the Application of Industry Standards (continued)

Sample ISO standards

IEEE

Example of national standard

Domain-Specific standards

CMMI – Capability Maturity Model

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

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

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

    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?

Risk Identification	Process assessment
Categorization of Risk	Process capability determination
Light-weight Risk-Based Testing Techniques	Process improvement
Heavy-weight Risk-Based Testing Techniques	Process assessment
Measuring Success of Risk-Based Testing Techniques for Test Selection	Types of process improvement models
2.3 Risk-Based Testing Exercise	5.3 Improving the Test Process
2.4 Test Documentation	Test Improvement Models
Test Documentation	Improving the Testing Process
Test policy	Change process steps: IDEAL
Test strategy	5.3 Improving the Test Process Exercise
Master test plan	5.4 Improving the Test Process with TMMi
Level test plan	5.5 Improving the Test Process with TPI Next
Test Policy	5.6 Improving the Test Process with CTP
Project Risk Management	5.7 Improving the Test Process with STEP
Examples of Project Risk Mitigation	6.0 Test tools and automation
Managing Project Risk	6.2 Tool Selection
2.4 Test Documentation Exercise	6.3 Tool Lifecycle
2.5 Test Estimation	6.3 Tool Metrics
Factors that influence test estimation	7.0 People skills
How good is our industry (at estimating)?	7.2 Individual Skills
2.5 Test Estimation Exercise	Individual skills – Testers
2.6 Defining and Using Test Metrics	Individual Skills – User View
What makes a good measure?	Individual Skills – Software Development Process
Metrics for test closure	Individual Skills – Test Techniques
Using metrics	Individual Skills – For Test Managers
Using metrics for test control	Individual Skills – Interpersonal Skills
A sample tester’s dashboard	Building the Perfect Team
<i>Exercise – Metrics</i>	Skills Assessment
2.6 Defining and Using Test Metrics Exercise	7.2 Individual Skills Exercise
2.7 Business Value of Testing	7.3 Test Team Dynamics
Quantitative value of testing	Test Team Dynamics – New Staff Members
Economics of test and failure	Technical Skills-Hard Skills
Qualitative value of testing	Technical Skills-Soft Skills
Cost of (poor) quality	7.4 Testing within an Organization
2.7 Business Value of Testing Exercise	7.5 Motivation
2.8 Distributed, Outsourced, and Insourced	Motivation and Morale
	Motivation and Metrics

## 2.9 Managing the Application of Industry Standards

Sources of standards

International standards

### **Class Schedule:**

Day 1: 9:00am-4:30pm ET

Day 2: 9:00am-4:30pm ET

Day 3: 9:00am-4:30pm ET

Day 4: 9:00am-4:30pm ET

Day 5: 9:00am-4:30pm ET

### **Price:**

\$2895

### **Course Fee Includes:**

- **Easy course access:** Attend training right from your computer. Easy and quick access fits today's working style and eliminates expensive travel and long days in the classroom.
- **Live, expert instruction:** Instructors are sought-after practitioners, highly-experienced in the industry who deliver a professional learning experience in real-time.
- **Valuable course materials:** Courses cover the same professional content as our classroom training, and students have direct access to valuable materials.
- **Rich virtual learning environment:** A variety of tools are built in to the learning platform to engage learners through dynamic delivery and to facilitate a multi-directional flow of information.
- **Hands-on exercises:** An essential component to any learning experience is applying what you have learned. Using the latest technology, your instructor can provide hands-on exercises, group activities, and breakout sessions.
- **Real-time communication:** Communicate real-time directly with the instructor. Ask questions, provide comments, and participate in the class discussions.
- **Peer interaction:** Networking with peers has always been a valuable part of any classroom training. Live Virtual training gives you the opportunity to interact with and learn from the other attendees during breakout sessions, course lecture, and Q&A.
- **Convenient schedule:** Course instruction is divided into modules no longer than four hours per day. This schedule makes it easy to get the training you need without taking days out of the office and setting aside projects.
- **Small class size:** Live Virtual courses are limited in small class size to ensure an

opportunity for personal interaction.

No Results

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