

Advanced Level Test Manager—ISTQB Software Testing Certification Training

Course Summary

Description

This course leads to the ISTQB Advanced Test Manager Certification.

The course focuses on testing topics including testing processes, risk management, test planning and control, reporting, resourcing, communication, team development, test process improvement, defect classification and tool support. Candidates will be given exercises, practice exams and learning aids for the ISTQB Advanced Test Manager certification.

Objectives

By the end of this course, students will be able to:

- Implement the mission, goals and testing processes established for the testing organization.
- Organize and lead risk management activities and use risks to drive test planning and reporting.
- Create and implement test plans consistent with organizational policies and test strategies.
- Continuously monitor and control the test activities to achieve project objectives.
- Assess and report relevant and timely test status.
- Identify skills and resource gaps in their test team and participate in sourcing adequate resources.
- Identify and plan test team skills development.
- Propose a business case for test activities that outlines the costs and benefits expected.
- Ensure proper communication within the test team and with other project stakeholders.
- Actively lead test process improvement initiatives.
- Design & implement a defect classification scheme.
- Apply tools to support testing.

Topics

- Testing Process
- Test Management
- Reviews
- Defect Management
- Improving the Testing Process
- Test Tools and Automation
- People Skills – Team Composition

Audience

The target audience for this course includes:

- Testers
- Test Analysts

Advanced Level Test Manager—ISTQB Software Testing Certification Training

Course Summary (cont.)

Audience (cont.)

- Test Engineers
- Test Consultants
- Test Managers
- Anyone wishing to gain the ISTQB Advanced Level Test Manager Certificate

The Advanced Level certificates are also appropriate for anyone who wants a deeper understanding of software testing, such as Project Managers, Quality Managers, Software Development Managers, Business Analysts, IT Directors and Management Consultants.

Prerequisite

- You must have obtained an ISTQB Foundation Level Certification (CTFL) to be eligible for Advanced Level Certification and have 3 years of experience.
- Prior to attending class please download and review the following document: Advanced Level Test Manager Syllabus

Duration

Five Days

Advanced Level Test Manager—ISTQB Software Testing Certification Training

Course Outline

I. *Testing Process*

- A. Introduction
- B. Test Planning, Monitoring and Control
 - 1. Test Planning
 - 2. Test Monitoring and Control
- C. Test Analysis
- D. Test Design
- E. Test Implementation
- F. Test Execution
- G. Evaluating Exit Criteria and Reporting
- H. Test Closure Activities

II. *Test Management*

- A. Introduction
- B. Test Management in Context
 - 1. Understanding Testing Stakeholders
 - 2. Additional Software Development Lifecycle Activities and Work Products
 - 3. Alignment of Test Activities and Other Lifecycle Activities
 - 4. Managing Non-Functional Testing
 - 5. Managing Experience-Based Testing
- C. Risk-Based Testing and Other Approaches for Test Prioritization and Effort Allocation
 - 1. Risk-Based Testing
 - 2. Risk-Based Testing Techniques
 - 3. Other Techniques for Test Selection
 - 4. Test Prioritization and Effort Allocation in the Test Process
- D. Test Documentation and Other Work Products
 - 1. Test Policy
 - 2. Test Strategy
 - 3. Master Test Plan
 - 4. Level Test Plan
 - 5. Project Risk Management
 - 6. Other Test Work Products
- E. Test Estimation
- F. Defining and Using Test Metrics
- G. Business Value of Testing
- H. Distributed, Outsourced, and Insourced Testing
- I. Managing the Application of Industry Standards

III. *Reviews*

- A. Introduction
- B. Management Reviews and Audits
- C. Managing Reviews
- D. Metrics for Reviews
- E. Formal Reviews

IV. *Defect Management*

- A. Introduction
- B. The Defect Lifecycle and the Software Development Lifecycle
 - 1. Defect Workflow and States
 - 2. Managing Invalid and Duplicate Defect Reports
 - 3. Cross-Functional Defect Management
- C. Defect Report Information
- D. Assessing Process Capability with Defect Report Information

V. *Improving the Testing Process*

- A. Introduction
- B. Test Improvement Process
 - 1. Introduction to Process Improvement
 - 2. Types of Process Improvement
- C. Improving the Testing Process
- D. Improving the Testing Process with TMMi
- E. Improving the Testing Process with TPI Next
- F. Improving the Testing Process with CTP
- G. Improving the Testing Process with STEP

VI. *Test Tools and Automation*

- A. Introduction
- B. Tool Selection
 - 1. Open-Source Tools
 - 2. Custom Tools
 - 3. Return on Investment (ROI)
 - 4. Selection Process
- C. Tool Lifecycle
- D. Tool Metrics

VII. *People Skills – Team Composition*

- A. Introduction
- B. Individual Skills
- C. Test Team Dynamics
- D. Fitting Testing Within an Organization