ISTQB Advanced Level – Test Manager

Course 5411 – 40 Hours

Overview

The Advanced Level qualification is aimed at people who have achieved an advanced point in their careers in software testing. This includes people in roles such as testers, test analysts, test engineers, test consultants, test managers, user acceptance testers and software developers. This Advanced Level qualification is also appropriate for anyone who wants a deeper understanding of software testing.

On Completion, Delegates will be able to

Taking the ISTQB Foundation Certificate syllabus in Software Testing as its basis, the certificate and course build directly on key aspects of management:

- To extend understanding of software test management – its practical application and key components – and to enhance awareness of issues and constraints regarding software test management.
- To prepare candidates for the examination for the Advanced ISTQB Certificate for Test Managers;
- To extend understanding of Test Planning, Monitoring and Control
- To enhance comprehension of metrics & analysis including traceability issues
- To introduce risk and constraint based testing
- To successfully partake, manage and measure Review processes
- To enhance understanding of Defect Lifecycle issues
- To understand lessons-learned and test process improving practices
- To learn how to manage Automation tools effectively
- Better understanding of people skills needed to compose successful testing teams

Who Should Attend

- 2 years' experience in Test Management (any kind of, such as: Test Methodology or Test Process Improvement roles).
- Basic diploma of Foundation level
- To be able to obtain an Advanced Level certification, candidates must hold the Foundation Level certificate. You need to prove evidence for at least 18 months of practical experience within the software testing field.

Course Contents

Testing Process
- Introduction
- Test plannig, monitoring and Control
- Test Analsys
- Test Design
- Test Implementation
- Test Execution
- Evaluating Exit Criteria and Reporting
- Test Closure Activities

Test Management
- Introduction
- Test Management in Context
- Understanding Testing Stakeholders
- Additional Software Development Lifecycle Activities and Work Products
- Alignment of Test Activities and Other Lifecycle Activities
- Managing Non-Functional Testing
- Managing Experience-Based Testing
- Risk-Based Testing and Other Approaches for Test Prioritization and Effort Allocation
- Risk-Based Testing
- Risk-Based Testing Techniques
- Other Techniques for Test Selection
- Test Prioritization and Effort Allocation in the Test Process
- Test Documentation and Other Work Products
- Test Policy
- Test Strategy
- Master Test Plan
- Level Test Plan
- Project Risk Management
- Other Test Work Products
- Test Estimation
- Defining and Using Test Metrics
- Business Value of Testing
- Distributed, Outsourced, and Insourced Testing
- Managing the Application of Industry Standards

Reviews
- Introduction
- Management Reviews and Audits
- Managing Reviews
- Metrics for Reviews
- Managing Formal Reviews

Defect Management
- Introduction
- The Defect Lifecycle and the Software Development
- Defect Workflow and States
- Managing Invalid and Duplicate Defect Reports
- Cross-Functional Defect Management
- Defect Report Information
- Assessing Process Capability with Defect Report Information

Improving the Testing Process
- Introduction
- Test Improvement Process
- Introduction to Process Improvement
- Types of Process Improvement
- Improving the Testing Process
- Improving the Testing Process with TMMi
- Improving the Testing Process with TPI Next
- Improving the Testing Process with CTP
- Improving the Testing Process with STEP

Test Tools and Automation
- Introduction
- Tool Selection
- Open-Source Tools
- Custom Tools
- Return on Investment (ROI)
- Selection Process
- Tool Lifecycle
- Tool Metrics

People Skills – Team Composition
- Introduction
- Individual Skills
- Test Team Dynamics
- Fitting Testing Within an Organization
- Motivation
- Communication