

Software Functional Testing & Test Management Training Course Offered by The Westfall Team

Software Test Planning & Management is a 1-day course designed to provide an excellent knowledge base and practical skills for anyone interested in improving Software Test Planning and Management techniques and practices in their organization.

This course includes a discussion of how basic project management techniques apply to testing. Methods for performing test planning and risk management are explored. The discussion on test management includes an overview of reviews and metrics for monitoring the testing activities and product quality. This course ends with an overview of the elements involved in documenting the testing process and metrics to measure the success of those processes.

Method of Instruction: This course is taught through lecture and interactive discussion. Actual examples from the software industry are utilized to make the information relevant. Throughout this course, learned skills are practiced using team exercises. The emphasis of this course is on techniques that allow the attendees to transition the skills learned in this course to their own work environments.

Target Audience: Software testers, quality engineering, developer, project managers, functional managers and other software project stakeholders involved in test design, execution, planning and management, and who are interested in improving software testing practices in their organization.

Course Objectives: Upon successful completion of this course attendees will be able to:

- Plan, track and control the software testing effort

Detailed Outline:

I: Test Planning & Management

1. Project Management – The Basics
 - Project Defined
 - Software Project Management Process
 - Goals of Software Project Planning
 - Goals of Software Project Management
 - Cost/Schedule/Product Trilogy
 - Successful Projects
 - Test Planning & Management
 - Test Manager
2. Test Planning
 - a. V&V Plan
 - b. Test Plans
 - c. Test Design Specification
 - d. Work Breakdown Structure
 - Product Type Work Breakdown Structure
 - Process Type Work Breakdown Structure
 - Hybrid Type Work Breakdown Structure

- Long-term & Near-term Planning
 - How Far to Break It Down
 - Testing WBS – Exercise
 - Test Deliverables
- e. Test Estimation
 - Estimating Size
 - Estimating Effort & Cost
 - Test Productivity Metrics
 - Include Everything
 - Test Schedule & Resources
 - Activity Network
 - Schedule Duration
 - f. Test Staffing & Training
 - Approaches to Organizing the Test Function
 - Staff & Resource Allocation
 - Qualities Beneficial to a Tester
 - Skill Gap Analysis
 - g. Test Environment
 - Test Tools
3. Risk Management
 - Risk Defined
 - Risk/Reward Balance
 - Types of Risk
 - Risk Management Process
 - Risk Identification Techniques
 - Techniques for Handling Risks
 - Exercise – Risk Management
 - Risk Based Testing
 4. Test Management
 - a. Test Implementation
 - Freezing Baselines
 - b. Test Tracking
 - Evaluating the Testing Effort
 - Technical Peer Reviews
 - Managerial Reviews
 - Managerial Reviews - Test Team Status Reviews
 - Managerial Reviews - Senior Management Reviews
 - Managerial Reviews - Phase Transition/Milestone Reviews
 - Post Project Reviews
 - Audits
 - Test Management Metrics
 - Test Management Metrics – Schedule Tracking
 - Test Management Metrics – Staff & Resource Tracking
 - Test Management Metrics – Requirements Churn Metric

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- Test Completeness Metrics
 - Defect Tracking Metrics
 - Defect Tracking Metrics – Defect Arrival Rare
 - Defect Tracking Metrics – Cumulative Defects by Status
 - Defect Tracking Metrics – Defect Closure Rate
 - Defect Tracking Metrics – Defect Backlog by Severity
 - Defect Tracking Metrics – Reliability Predictions
 - Cost of Quality Metrics
- c. Test Control
- Corrective Action
 - Minimizing Testing Costs
 - Ship Still Happens – More Tradeoffs
 - Test Sufficiency
5. Test Processes
- a. Test Process Definition
- Process Architecture
 - Test Process Definition
 - System Test Process - Example
- b. Test Process Metrics
- Test Optimization Metrics
 - Test Optimization Metrics – Test Effectiveness
 - Test Optimization Metrics - Escapes
 - Test Optimization Metrics – Phase Containment
 - Test Optimization Metrics – Defect Detection Efficiency
 - Test Process Effectiveness Metrics
 - Test Process Effectiveness Metrics – Defect Arrival Rate

- Test Process Effectiveness Metrics – Defect Density
- Test Process Effectiveness Metrics – Reliability Actuals

Other Software Testing Courses Include:

Software Testing and Test Management: is a 5-day course designed to provide an excellent knowledge base and practical skills for anyone interested in improving Software Testing and Test Management techniques and practices in their organization.

Software Structural Testing: a 2-day course consisting of chapters 1, 2 and 3 from our standard Software Testing and Test Management course.

Software Functional Testing: a 3-day course consisting of chapters 1, 4, and 5 from our standard Software Testing and Test Management course.

Software Functional Testing & Test Management: a 3-day course consisting of chapters 1, 4, 5 and 6 from our standard Software Testing and Test Management course.

Customized Software Testing Courses: Our software testing courses are modularized so that they can be easily customized for in-house course offerings that focus on the specific content and topics needed to meet your organization's exact training requirements. For in-house courses, class exercises can also be tailored to include actual examples from your organization in order to make the training even more relevant to your environment.

For more information about these and other course offered by The Westfall Team:

Visit our website at: www.westfallteam.com

Send an email to: lwestfall@westfallteam.com

Or call: 972-867-1172

