

Effective software testing with end to end integration with Tools (4 Days)

Introduction

Today one of the factors to achieve software quality is through comprehensive Testing. With crunched schedules and stringent budget, testers need structured approach to handle testing as a process through set of tools.

This course is designed for people who aspire to do the testing as a professional work to satisfy customers through effective testing.

Participants will learn how to create an effective test strategy, how to design creative test cases, how to optimize test cases to get the most testing from the fewest number of cases and how to collect metrics and analyze the report for improvements.

Attendees will leave this course with a solid foundation for testing in situations which are very diverse and dynamic. This course is centered around a common case study which builds throughout the course. You will emerge from this three-day session knowing how to plan and conduct tests in diverse and complex environments.

Objectives:

This course will build on basic testing principles and introduce a set of open source Test solutions to teach testers how to integrate Test lifecycle:

- Describe the major software development lifecycles with testing process adaptation
- Understand software and Test Requirements and usage of Requirement Management Tool
- Understand the Basics of Test strategy and plan
- Usage of Test Management Tool
- Define how to write Software Test cases using different test design methods
- Usage of Test Case Management Tool
- Understand the basics of Defect Management
- Integrate Defect tracking tool
- Monitor and control by using tools capability of requirement, Test case mapping and reporting
- Usage of Functional Automation Tool
- Usage of Performance Tool
- Usage of Resource Monitoring Tools
- Development of custom Report
- Test compliance and templates with checklists and data

Who Will Benefit

- Test analysts
- Test engineers
- Software developers
- Project managers
- Test lab managers
- QA analysts

Take Away

- Practical exposure in preparing Test Plan, Test Case, Metrics Report and Analysis
- Sample Templates and Checklists for all testing activity
- Exposure through multiple testing tools usage to understand the testing efficiency in end to end test lifecycle
- End 2 End comprehensive testing course material
- Hands on exercise on 80% of the session

Course Outline

1. Introduction to Basic of Software Testing and expectations

- Testing Objectives
- Testing Process Methods
- Integration of Project Management, Testing Management and QA

2. SDLC and Software/Test Requirements and Tools

- SDLC phases and Test Requirements
- How to handle Requirements
- Tools to capture software Requirements
- Demo and usage of Requirement Tools
- Hands on exercise/case study

3. Test Management and Test Case management & Tools

- Test management basics
- Understand test strategy and plan
- Test management flow
- Test case development and design
- Demo and usage of Test management/Test case management tools
- Hands on exercise and case study

4. Test compliance and checklist & Techniques

- Basics of test compliance
- Test phase wise compliance and utility on preventive measure of defects
- Testers checklist and data collection
- Hands on exercise

5. Defect Management and tools

- Basics of defect management
- Integration of Defect management tool

- Hands on exercise and case study

6. Test Automation and Tool

- Basic of Test Automation and understanding
- Test Automation tool and it's usage on Regression testing
- Hands on exercise and case study of Automation tools, custom script generation and test execution
- Reporting

7. Performance Testing Tool

- Basic of Test Performance of application and understanding basics of performance
- Performance testing tool and it's usage
- Hands on exercise and case study of performance tools, custom script generation and test execution
- Reporting

8. Resource Monitoring Tool

- Basic of Test environment Resource monitoring
- Data which are mandatory to monitor resource over a network
- Resource monitoring tool usage and demo, hands on exercise