

DAY 1

Scripting Applications in Testing

- Definition of performance testing
- Performance testing terminology
- Selling performance testing
- Understanding the demand driving the need for performance testing
- Avoiding common pitfalls encountered in performance testing

Test Planning & Estimation

- Risk-based test approach
- Preparation of performance test strategy
- Identifying a workload profile
- Developing non-functional requirements
- Specifying test objectives
- Designing performance test cases

Exercise - Test Strategy

Test Execution Preparation

- Specifying and obtaining a truly representative test environment
- Extraction & creation of suitable test data
- Set-up of testing tools and application monitors

Test Implementation

- Process definition for test scripting
- Defining the aspects of configuring a specific test
- Retrieving server statistics
- Monitoring test execution progress

DAY 2

Analysis & Reporting

- How to analysis test results
- Process for making conclusions & recommendations
- Identifying trends which may identify breakpoints or bottlenecks
- Defect reporting process
- Test closure report

Exercise - Sample results analysis

Performance Tuning & Root Cause Analysis

- Advanced aspects of identifying and resolving bottlenecks
- Identifying key resources to support the process

Test Management

- Progress and issue reporting
- Proactive techniques to identify issues and mitigate risk
- Preparing documentation throughout the process

Load Testing Tools

Exercise - load testing tool 1

Exercise - load testing tool 2

- High level assessment of current tools

Course Wrap up

The skilled performance test manager must manage expectations from all quarters about what performance testing can deliver and manage technical resources that may not have been exposed to a rigorous understanding of formal test process, necessary to successfully deliver performance testing projects on-time and on-budget.

This course provides a solution to these issues by specifying a formal best-practice method of managing performance test projects using risk-based testing approaches and provides formal structure for practical lessons on various activities such as estimation, identifying risks, developing tests, preparing data and environment and performing analysis and reporting.

Duration

- 2 days

Format

- Tutorials
- Exercises
- Demonstrations
- Full course notes, exercise sheets and related material handouts
- Mix of paper-based and PC-based exercises

Learning Objectives

- Understand the importance of non-functional test activities to mitigate risk.
- Develop a strategy and plans for performance testing a e-business applications
- Understand the benefits of a repeatable performance testing process
- Appreciate the purpose of performance tuning and root cause analysis
- Utilise automated performance test tools to reduce costs involved in testing
- Manage your testing activities and test team

Audience

- Software test specialists
- Development and Test Managers responsible for successful online application implementations

Follow-on Training

- Practical Test Management
- Practical Test Project Management
- Practical Test Automation