

# Introduction to Performance Testing

## 1 Day Workshop

This comprehensive course covers all the essential principles of Performance Testing.

Designed for beginners as well as testers with previous non-functional testing experience, it explains the different types of performance testing and why it is important, software & hardware requirements, how to design effective performance tests, test execution and analysis. This is a non-tool specific course, but demos are shown using a popular performance tool to aid understanding.

Throughout the course practical examples are demonstrated, and the delegates have exercises at the end of every chapter to aid comprehension.

### Course Objectives

- understand the key principles of Non-Functional Testing
- understand how to plan for an effective performance test
- understand the team responsibilities in performance testing
- learn how to design the test and execute it
- Look at analysis tools and how to identify bottlenecks in the System Under Test

### Course Pre-requisites

- None

### Key Points

#### Introduction

What is Performance testing. Types of Performance Tests, understanding workload, alternatives to performance testing, considerations before engagement.

#### Software & Hardware

Hardware, Software, Resources requirements, Virtual Users, The Controller, the Analysis component. System Architecture, testing through Firewalls, Geography specific testing

#### Planning an Effective Performance Test

Understanding workload and the 'Peak Hour', application concurrency, data requirements and monitoring strategy

#### Execution & Reporting

A look at Hardware & Software monitors, Network delay information, protocol specific information. The different kinds of Scenario Profiles. Reporting - what to report, what is a pass/fail

#### Analysis & Investigation

Understanding Transactional response times and transaction pass/fail numbers. Identifying high risk transactions. Improvement and re-runs.

#### Conclusion & Demo

See what the theory looks like in practice, a demo using one of the most popular Performance Testing Tools.

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Day

The introductory course that takes you from beginner through to writing effective Performance Tests

Recommended for anyone new to Non-Functional Testing