ISTQB Certified Tester Foundation Level - Performance Testing (CT-PT) Course

Course Duration: 24 Hrs. **Course Code: CT-PT**

Course Overview

The **ISTQB Certified Tester Foundation Level – Performance Testing (CT-PT)** course is designed for software testing and quality assurance professionals who want to build a strong foundation in performance testing. This course focuses on the principles, techniques, and processes required to evaluate system performance characteristics such as response time, throughput, scalability, and stability. Participants will gain practical knowledge of performance testing within different development life cycles while preparing for the ISTQB CT-PT certification exam.

What You'll Learn?

By completing this course, you will be able to:

- Understand the fundamentals of performance testing
- Identify performance risks and quality attributes
- Plan and design performance tests effectively
- Execute load, stress, endurance, and scalability tests
- Analyze performance test results and bottlenecks
- Integrate performance testing into Agile and DevOps
- Prepare confidently for the ISTQB CT-PT certification exam

Target Audience

This course is ideal for:

- Software Testers and QA Engineers

- Performance Testers and Test Analysts
- Test Automation Engineers
- Developers involved in performance optimization
- Professionals preparing for ISTQB CT-PT certification

Pre-Requisites

Participants should have:

- Basic knowledge of software testing concepts
- Familiarity with software development life cycles
- Understanding of web or application architectures is beneficial
- ISTQB Foundation Level (CTFL) certification is recommended

Course Content

Module 1: Fundamentals of Performance Testing

- Performance testing concepts and objectives
- Performance risks and quality characteristics
- Types of performance testing

Module 2: Performance Testing Process

- Planning performance tests
- Defining performance requirements and SLAs
- Test environments and workloads

Module 3: Performance Test Design

- Workload modeling and scenarios
- Test data and scripting concepts

- Performance metrics and monitoring

Module 4: Executing Performance Tests

- Load, stress, endurance, and spike testing
- Monitoring system resources
- Managing test execution cycles

Module 5: Results Analysis and Reporting

- Analyzing performance results
- Identifying bottlenecks and root causes
- Reporting findings to stakeholders

Module 6: Performance Testing in Agile and DevOps

- Continuous performance testing
- Integrating performance tests into CI/CD
- Best practices and common challenges