ISTQB Certified Tester – Performance Testing

Performance Testing is an important part of the software lifecycle and unlike other testing efforts it must be executed with software testing tools. This course explains how to define performance tests, how to execute them, and how to analyze them. The course is tool-agnostic and therefore concepts learned here can be applied to a variety of commercial and open source performance test tools.

By the end of this course, an attendee should be able to:

- Understand the basic concepts of performance efficiency and performance testing
- Define performance risks, goals, and requirements to meet stakeholder needs and expectations
- Understand performance metrics and how to collect them
- Develop a performance test plan for achieving stated goals and requirements
- Conceptually design, implement, and execute basic performance tests
- Analyze the results of a performance test and state implications to various stakeholders
- Explain the process, rationale, results, and implications of performance testing to various stakeholders
- Understand categories and uses for performance tools and criteria for their selection
- Determine how performance testing activities align with the software lifecycle

Who Should Attend?
- Test Automation Engineers
- Performance Testers
- Performance Test Engineers
- Systems Engineers
- Software Developers

ISTQB® Certification & Exam
The cost of the class includes an exam voucher for the ISTQB CT-PT exam.* Exam vouchers are distributed at the end of the class. Passing the exam will grant you an ISTQB CT-PT certification.
Prerequisites
You must have obtained an ISTQB Foundation Level Certification (CTFL) to be eligible for the Performance Testing Certification.

*This purchase does NOT fall under our Coveros guarantee of retaking the class if you do not pass the exam within 30 days of taking the class. This purchase includes just one (1) exam voucher. All additional vouchers will need to be purchased with an exam provider.

Course Outline

Basic Concepts
Principles of Performance Testing
Types of Performance Testing
Testing Types in Performance Testing
- Static testing
- Dynamic testing

The Concept of Load Generation

Performance Testing Tasks
Planning
- Deriving Performance Test Objectives
- The Performance Test Plan
- Communicating about Performance Testing

Analysis, Design and Implementation
- Typical Communication Protocols

Common Performance Efficiency Failure Modes and Their Causes

Performance Measurement Fundamentals
Typical Metrics Collected in Performance Testing
- Why Performance Metrics are Needed
- Collecting Performance Measurements and Metrics
- Selecting Performance Metrics

Aggregating Results from Performance Testing
Key Sources of Performance Metrics
Typical Results of a Performance Test

Performance Testing in the Software Lifecycle
Principal Performance Testing Activities
Categories of Performance Risks for Different Architectures
Performance Risks Across the Software Development Lifecycle
Performance Testing Activities

- Transactions
- Identifying Operational Profiles
- Creating Load Profiles
- Analyzing Throughput and Concurrency
- Basic Structure of a Performance Test Script
- Implementing Performance Test Scripts
- Preparing for Performance Test Execution

Execution
Analyzing Results and Reporting

Tools
Tool Support
Tool Suitability

Price: $1545