

# Test Studio Online Training:

# LOAD AND PERFORMANCE TESTING

## Introduction

### AGENDA

- Segment 1: Introduction
- Segment 2: Why Load Test?
- Segment 3: Considerations
- Segment 4: Performance Testing
- Segment 5: Load Testing
- Segment 6: Wrapping Up

### COURSE GOALS

- Understand basic goals and terminology
- Know the critical considerations/coordination
- Understand your goals
- Prepare infrastructure
- Design, execute and interpret performance tests
- Design, execute and interpret load tests

## Segment One

- Introduction
- Understanding the Terminology
- Performance Test vs. Load Test
- Types of Load Tests

## Segment Two: Why Do Load and Performance Testing in the First Place?

- Attempt to validate system against real-world (ish) models
- Use load/perf as an A/B test to avoid regressions

## Segment Three: Considerations before You Start

- Resources
  - a. Infrastructure needs
  - b. Understand Test Studio's architecture
- Time
- People
- When to perform load/perf testing
- How to go about it
  - a. Clarify your goals
  - b. Coordinate, coordinate, coordinate
  - c. Ensure your IT team knows you'll be load testing!
  - d. Make sure you're testing appropriate versions
- Approach with scientific methodology
  - a. Change one variable at a time

## Segment Four: Performance Testing

- Implementing Performance Testing
- Configuring settings
- Selecting Performance Monitor counters
- Executing and interpreting results
- Working with Performance Test Lists

## Segment Five: Load Testing

- Implementing Load Testing
- Configuring controllers and virtual users
- Creating user profiles

Capturing from automated tests and manual activities

Working with local and remote sources

- Importing other sources (Fiddler files, other user profiles)
- Setting workload and other options
- Selecting Performance Monitor counters
- Setting duration and ramp options
- Executing the load test
- Interpreting live and post-run metrics
- Warmup scripts
- Leveraging results to mitigate system issues

## Segment Six: Wrapping It Up

- Load and performance answer business questions
- Focus on high-value scenarios
- Take great care with environment
- Change one thing at a time
- Pass useful information back to the business side
- Other resources
- Need help? Contact Telerik!