LoadRunner Professional (LRP) Essentials (LRP)

ID LRP **Price** 4,000.— €(excl. tax) **Duration** 5 days

Important notes for the booking of Open Text trainings

Please note that prepayment is required for participation in an Open Text training course. Participation in a training course is possible for 12 months after booking the course. Cancellations are excluded. For further information, please refer to **our** General Terms and Conditions.

Course Overview

This five-day course introduces you to the OpenTextTM LoadRunner Professional (LRP) application. The course covers topics about the Virtual User Generator (VuGen), Controller, and Analysis tools. This course is designed to give you a foundation for basic load-testing tasks. You create a performance test script using VuGen and create and run load test scenarios using the Controller. You learn to work with graphs to display data after executing a test. The hands-on labs are designed to provide you with the knowledge necessary to execute scenarios in the Controller and view the results in the Analysis tool. **Highlights:**

- Overview of performance testing and the LoadRunner family
- Describe LRP architecture and components
- Create and enhance performance test script
- Plan and design an effective performance test
- Execute and analyze performance test results

Who should attend

Quality assurance and performance engineers, users of LoadRunner Professional who need to load test their web applications, and executives involved in any aspect of the load testing process

Prerequisites

To be successful in this course, you should have the following prerequisites or knowledge:

- Have a working knowledge of Windows, websites, and browsers
- A fundamental understanding of C programming is helpful but not mandatory

Course Objectives

On completion of this course, participants should be able to:

- Explain the components of the LoadRunner Professional (LRP) application
- Record scripts for the web environment using the Virtual User Generator (VuGen)
- Enhance the scripts by adding Transaction (measure the response time of the business process), Parameterize (test with multiple data), Checkpoint (validate the correct page navigation), and Correlate (handle the dynamic values coming from the server)
- Replay and debug the script in VuGen
- Define an action for a web script
- Work with the VuGen Editor
- Identify the information that you need for load testing
- Apply the recommended workflow to create a LRP scenario
- Assign scripts, run-time settings, performance monitors, Load Generators (LGs), and Virtual Users (Vusers) to an LRP scenario based on your load-testing goals
- Perform a load test on your application by running a scenario

Course Content

LoadRunner Professional (LRP) Essentials – Three Days

Module 1: Course Overview

- Identify the contents and objectives of the course
- Define the class schedule and class logistics
- Identify the related courses
- Discuss the lab environment details

Module 2: Introduction to LoadRunner Professional (LRP)

- Explain performance testing

- Describe various types of performance tests and its objectives
- Describe the performance testing approach or process
- Explain the LoadRunner Family
- Describe the LRP overview, architecture, and components
- Explain the Controller overview and accessing license information
- Describe analysis overview

Module 3: What's New in LRP 2023 R1

- Discuss the improvements in LoadRunner Professional

Module 4: Planning an Effective Load Test

- Define measurable goals for your load test
- Gather preliminary information before load testing your system
- Organize system information effectively
- Use gathered information to plan load tests

Module 5: Installing LRP Components

- Describe the LR architecture
- Determine the installation location for LoadRunner components
- Identify the software and hardware requirements for installation
- Troubleshoot Load Generator (LG) connectivity issues
- Configure the Network Virtualization (NV) settings

Module 6: Introduction to Scenarios

- Describe the elements of an LR scenario
- Identify the basic steps for defining a scenario in the LoadRunner Controller

Module 7: Using Run-Time Settings

- Define run-time settings
- Describe the difference between run-time settings for scripts and scenarios
- Configure run-time settings based on performance testing goals

Module 8: Scheduling Scenarios

- Define scenario scheduling
- Define scheduling manual scenario
- Define real-world schedules and basic schedule run modes
- Manage schedules using the actions grid
- Explain the Interactive Schedule graph

Module 9: Using Performance Monitors

- Describe the value of performance monitors
- Explain performance monitors and graphs type
- Configure performance monitors
- Discuss performance monitoring best practices

Module 10: Running a Scenario

- Prepare for a scenario run
- Define the scenario execution
- Run a scenario from the Controller and command line
- Discuss the best practices for running a scenario efficiently
- Discuss common run-time errors

Module 11: Using the Analysis Tool

- Describe the analysis tool and the categories of analysis graphs
- Describe the value of analyzing results
- Use graphs to display data
- Describe graph data and raw data
- Apply granularity to many graphs, merge graphs, and perform auto-correlation
- Use Service-level Agreement (SLA) reports
- Run report generation utilities

Virtual User Generator (VuGen) Essentials – Two Days

Module 1: Course Overview

- Identify the contents and objectives of the course
- Define the class schedule and class logistics
- Identify the related courses
- Discuss the lab environment details

Module 2: Introduction to Virtual User Generator (VuGen)

- Define Virtual User (Vuser) and VuGen
- Explore the new look and feel of the VuGen UI
- Explain how to use the step navigator and solution explorer
- Discuss the script workflow
- Create scripts using VuGen
- Record business processes with VuGen

Module 3: What's New in VuGen 2023 R1

- Discuss the improvements in VuGen
- Describe the protocol enhancements

Module 4: Recording Scripts for Web Applications

- Create VuGen scripts by recording user steps
- Save scripts
- Create a Vuser script template
- Create business process reports

Module 5: Replaying and Debugging the Vuser Scripts

- Identify and configure the appropriate web run-time settings for replaying scripts
- Replay and debug the script in VuGen
- Recognize the debugging tools available in VuGen

Module 6: Auto Correlation After Recording

- Describe correlation
- Work with Design Studio
- Correlate dynamic values after recording a script

Module 7: Using Manual Correlation

- Explain the manual correlation process
- Configure the parameters for correlation
- Correlate a script manually by:
- Using the WinMerge utility
- Adding the web_reg_save_param_ex correlation function
- Parameterizing the dynamic value in the script

Module 8: Inserting Transactions into the Script

- Explain the use of transactions in a script
- Add a transaction into a script during the recording
- Insert a transaction into a script after recording

Module 9: Parameterizing a Script

- Define parameterization
- Determine when to parameterize a script
- Create and modify parameter lists
- Create new parameters
- Work with parameter properties

Module 10: Verifying the Vuser Scripts

- Identify the need to use verification in scripts
- Define verification for scripts
- Add text checkpoints during and after the recording of scripts
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Module 11: Creating Actions for a Web Script

- Define an action for a web script
- Record a script with multiple actions
- Create action blocks

Module 12: Using the VuGen Editor

- Work with the VuGen Editor
- Send customized output messages to the Replay Log
- Identify basic C code, including statements, variables, and functions
- Apply basic debugging techniques in VuGen

Module 13: Using the Advanced Scripting Techniques for Vuser Scripts

- Explain the general LR functions
- Explain the protocol-specific functions

Module 14: Using Correlation Rules to Auto Correlate during Code Generation

- Create correlation rules to auto correlate
- Regenerate and record scripts
- Import and export correlation rules

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