



## LRE01SP-EX-2020 – LoadRunner Enterprise & VuGen 2020

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- Access printable job aids targeted towards specific application tasks
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- Experience full learning with key terms and concepts, product demonstrations, and self-assessments by viewing the entire course

Regardless of which route is selected, users will gain an understanding of the important key concepts, as well as gain competency in both the navigation and functionality of the application.

### Course Description

This course gives a general overview of Performance Testing and how Micro Focus Load Runner Enterprise (LRE) is used for Performance Testing. LoadRunner Enterprise is a cross-enterprise tool for planning and running multiple performance test projects. It allows you to remotely monitor concurrent tests across different geographic locations. You will learn about LRE architecture and various components in LRE such as Controllers, and Load Generators. The course provides a basic overview of the LRE user site. You will also learn how to login to LRE, and view tests and timeslots in LRE, and then how to upload VuGen

scripts to LRE.

Further in the course, you will learn how to create a load test, test set, and monitor profiles, and how to configure monitor profiles to load test and define SLA for the load test created in LRE. You will learn how to configure a scenario, add scripts, Load Generators, and controller to load test. You will be introduced to the concepts of how to reserve a timeslot for the load test in LRE, and how to run the load test and, monitor the load test under execution. In addition, you will learn about the Performance Application Lifecycle and how to create trend reports in LRE. You will then learn about various graphs in HTML Report and how to upload/download results in LRE. Also, you will learn about LRE Dashboard and Various Reports present in LRE.

In the VuGen course, you will learn how to develop a script to emulate the User steps and have an overview of the VuGen tool and its features. Also, you will learn various recording options and how to record a new script in VuGen. Then, you will learn about Run time settings and how to replay the recorded script using the run time settings. You will then learn about transactions in VuGen and how to insert a transaction before and after recording the script. You will learn about parameters in the script required to emulate the different user data. Besides, you will learn how to handle dynamic responses from the server by using correlation in the script. You will also learn about text checks in the script, and how to use different Actions in the script.

## Audience/Job Roles

This course is intended for Performance Testers using Micro Focus LoadRunner Enterprise 2020.

## Course Objectives

Upon successful completion of this course, you should be able to:

- Identify the components of the LoadRunner Enterprise (LRE).
- Apply the recommended workflow to create a basic test scenario in LRE.
- Assign scripts, performance monitors, Load Generators (LGs), and Virtual User (Vusers) to a scenario based on your load testing goals in LRE.
- Perform a load test on your application by running a scenario in LRE.
- Access and analyze HTML reports of load test results in LRE.
- Describe the basic elements of a VuGen script.
- Create a VuGen script by recording user steps with VuGen in a web environment.
- Identify and configure the appropriate web run-time settings for replaying scripts.
- Explain the function of a transaction in a script.

## Prerequisites / Recommended Skills

To be successful in this course, you need to have a working knowledge of the Performance Testing process.

## Course Topics

LoadRunner Enterprise	
Modules	Objectives
<b>Module 1: Introduction</b>	<ul style="list-style-type: none"> <li>• Introduction</li> <li>• Objectives</li> <li>• Performance Center Basics</li> <li>• Load Testing Process</li> <li>• Performance Center Architecture</li> <li>• Performance Center Components</li> <li>• Summary</li> <li>• Assessment</li> </ul>
<b>Module 2: LoadRunner Enterprise User Site</b>	<ul style="list-style-type: none"> <li>• Introduction</li> <li>• Objectives</li> <li>• Load Testing Process</li> <li>• Log In to LRE*</li> <li>• The User Site</li> <li>• User Site Menu Options</li> <li>• View the Test Plan Tests*</li> <li>• View Timeslots*</li> <li>• Summary</li> <li>• Assessment</li> </ul>
<b>Module 3: Vuser Scripts</b>	<ul style="list-style-type: none"> <li>• Introduction</li> <li>• Objectives</li> <li>• Load Testing Process</li> <li>• Key Terminology</li> <li>• Sources of Vuser Scripts</li> <li>• Connect VuGen to LRE*</li> <li>• Upload Vuser Scripts from LRE*</li> <li>• Modify Vuser Scripts from VuGen*</li> <li>• Summary</li> <li>• Assessment</li> </ul>
<b>Module 4: Configure Load Tests</b>	<ul style="list-style-type: none"> <li>• Introduction</li> <li>• Objectives</li> <li>• Load Testing Process</li> <li>• Create a Performance Test*</li> <li>• Test Sets</li> <li>• Create a Test Set*</li> <li>• Configure Controller Options*</li> <li>• Create a Monitor Profile*</li> <li>• Configure Monitors*</li> <li>• Use the SLA Wizard*</li> <li>• Summary</li> <li>• Assessment</li> </ul>
<b>Module 5: Prepare a Test</b>	<ul style="list-style-type: none"> <li>• Introduction</li> <li>• Objectives</li> <li>• Load Testing Process</li> <li>• Navigate the Scheduler</li> </ul>

	<ul style="list-style-type: none"> <li>• Configure the Scheduler*</li> <li>• Timeslots</li> <li>• Reserve a Timeslot*</li> <li>• Summary</li> <li>• Assessment</li> </ul>
<b>Module 6: Run Load Tests</b>	<ul style="list-style-type: none"> <li>• Introduction</li> <li>• Objectives</li> <li>• Load Testing Process</li> <li>• Load Test Execution</li> <li>• Run a Load Test*</li> <li>• Load Test Run Page</li> <li>• Monitor Progress*</li> <li>• Load Test Execution Process</li> <li>• Summary</li> <li>• Assessment</li> </ul>
<b>Module 7: Performance Application Lifecycle</b>	<ul style="list-style-type: none"> <li>• Introduction</li> <li>• Objectives</li> <li>• Load Testing Process</li> <li>• PAL Workflow</li> <li>• Open Trending Perspective*</li> <li>• Summary</li> <li>• Assessment</li> </ul>
<b>Module 8: LoadRunner Enterprise Analysis</b>	<ul style="list-style-type: none"> <li>• Introduction</li> <li>• Objectives</li> <li>• Load Testing Process</li> <li>• View Load Test Results*</li> <li>• Upload and Download Files and Reports*</li> <li>• Summary</li> <li>• Assessment</li> </ul>
<b>Module 9: The Project Dashboard</b>	<ul style="list-style-type: none"> <li>• Introduction</li> <li>• Objectives</li> <li>• Load Testing Process</li> <li>• Navigate the Dashboard and the Various Reports*</li> <li>• Summary</li> <li>• Assessment</li> </ul>

## Virtual User Generators (VuGen)

### Modules

### Objectives

#### Module 1: Introduction

- Introduction
- Objectives
- VuGen Roadmap
- Creating Scripts in VuGen
- Invoking VuGen
- Invoke VuGen\*
- Navigate the New VuGen Interface\*
- Review Layouts\*
- Using the Step Navigator
- Using the Solution Explorer

	<ul style="list-style-type: none"> <li>• Capture Business Processes*</li> <li>• Navigate the Output Window*</li> <li>• Navigate from the Tree View*</li> <li>• Access the Training Application*</li> <li>• Summary</li> <li>• Assessment</li> </ul>
<b>Module 2: Recording the Web</b>	<ul style="list-style-type: none"> <li>• Introduction</li> <li>• Objectives</li> <li>• Script Workflow</li> <li>• Accessing Protocol Advisor</li> <li>• Create a New Script for a Single Protocol*</li> <li>• Set Recording Options*</li> <li>• Think Time Settings</li> <li>• View Differences in HTML and URL</li> <li>• Record User Steps*</li> <li>• Editing Thumbnails</li> <li>• View the Recorded Script*</li> <li>• View the Recorded Snapshot*</li> <li>• Saving Scripts Locally</li> <li>• Create a Business Process Report*</li> <li>• Summary</li> <li>• Assessment</li> </ul>
<b>Module 3: Replay</b>	<ul style="list-style-type: none"> <li>• Introduction</li> <li>• Objectives</li> <li>• Script Workflow</li> <li>• Apply Run-Time Settings*</li> <li>• Set the General Options*</li> <li>• Run the Script*</li> <li>• Locating the Test Result Directory</li> <li>• Summary</li> <li>• Assessment</li> </ul>
<b>Module 4: Transactions</b>	<ul style="list-style-type: none"> <li>• Introduction</li> <li>• Objectives</li> <li>• Script Workflow</li> <li>• Defining Transactions</li> <li>• Measuring Transactions</li> <li>• Add Transactions During Recording*</li> <li>• Add Transactions After Recording*</li> <li>• Check the Replay Log*</li> <li>• Apply Automatic Transactions*</li> <li>• Summary</li> <li>• Assessment</li> </ul>
<b>Module 5: Parameters</b>	<ul style="list-style-type: none"> <li>• Introduction</li> <li>• Objectives</li> <li>• Script Workflow</li> <li>• Defining Parameterization</li> <li>• Creating Real-World Scenarios Using Parameters</li> <li>• Determining When to Parameterize</li> <li>• Unique Constraints</li> <li>• Date Constraints</li> <li>• Data Dependency</li> <li>• Data Caching</li> </ul>

	<ul style="list-style-type: none"> <li>• Parameter Types</li> <li>• Parameterize Data Values*</li> <li>• Creating Data Files in Notepad</li> <li>• Creating a Date/Time Parameter</li> <li>• Assign Data Access Parameters*</li> <li>• Select the Extended Log Option*</li> <li>• View the Run-time Data*</li> <li>• Summary</li> <li>• Assessment</li> </ul>
<b>Module 6: Auto Correlation After Recording</b>	<ul style="list-style-type: none"> <li>• Introduction</li> <li>• Objectives</li> <li>• Script Workflow</li> <li>• Correlating Scripts</li> <li>• Recording Hard-Coded Dynamic Data</li> <li>• Replaying Dynamic Values</li> <li>• Correlating Automatically After Recording</li> <li>• Setting Correlation Options</li> <li>• Correlate Values and Verify Execution*</li> <li>• Summary</li> <li>• Assessment</li> </ul>
<b>Module 7: Verification</b>	<ul style="list-style-type: none"> <li>• Introduction</li> <li>• Objectives</li> <li>• Script Workflow</li> <li>• Verifying Functional Integrity for Concurrent Users</li> <li>• View a Test Specification Example</li> <li>• Determining Success with a Verification Step</li> <li>• Confirm the Success of a Business Process*</li> <li>• Adding Text Checks</li> <li>• Add a Text Check During Recording*</li> <li>• Add a Text Check After Recording*</li> <li>• Verifying the Text Check in the Replay Log</li> <li>• Checking for an Error Page</li> <li>• Summary</li> <li>• Assessment</li> </ul>
<b>Module 8: Actions</b>	<ul style="list-style-type: none"> <li>• Introduction</li> <li>• Objectives</li> <li>• Planning to Record Actions</li> <li>• Record a Script in a Single Action*</li> <li>• Record a Script in Multiple Actions*</li> <li>• Create an Action Block*</li> <li>• Set Sequential Run Logic*</li> <li>• Set Random Run Logic*</li> <li>• Summary</li> <li>• Assessment</li> </ul>

❖ Indicates a simulation