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## Manual Testing Course Content

- Introduction to Software Testing
- Software Development Life Cycle (SDLC)
- SDLC Models
- Levels of Dynamic Testing
- Dynamic Testing Approach or Methodologies
- Static Testing Technique
- Dynamic Testing Technique
- Black Box Testing Technique
- Software Testing Life Cycle (STLC)
- STLC Templates
- Test Plan
- Test Scenarios
- Test Case Preparation (with practical examples)
- Traceability Matrix
- Bug Life Cycle
- Bug Reports
- Software Configuration Management
- Test Management

# Load Runner

## Module 1

- Testing overview
- Performance testing concepts
- Goals and benefits of performance testing
- Different types of performance testing
- Different Tools of performance testing

## Module 2

- Terminology of Load testing
- Understand work load models
- Prepare a performance test plan

## Module 3

- LR architecture
- Components of LR
- Overview of Virtual user Generator
- Recording types

## Module 4

- Overview of protocols supported
- Runtime settings
- Recording a sample script and understanding LR script

## Module 5

- Understanding the Replay settings
- Actions in VuGen
- Commenting and logging
- Creating Transactions
- Correlation concept

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- Importance of correlation in performance testing

## Module 6

- Understanding correlation Designer studio
- Setting correlation rules
- Manual correlation
- Auto correlation

## Module 7

- Data Parameterization
- Correlation vs parameterization
- Running actions for iterations
- Customizing iteration timings

## Module 8

- Rendezvous settings
- Scripting in C – understanding various LR functions in vugen
- Introduction to Controller
- Working of Controller
- Concept of scenarios and groups

## Module 9

- Working with manual scenario and Goal oriented scenario
- Concept of Load Generator
- Defining SLAs

## Module 10

- Scenario Execution
- Monitoring the Execution
- Concept of performance counters
- Understanding various monitor graphs

## Module 11

- Overview of LR Analysis tool
  - Exporting analysis Reports
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- Understanding and analysing performance graphs

## QTP

### 1) Automation General information

- i. Automation definition
- ii. Purpose of the Automation
- iii. Benefits of the automation
- iv. Which applications are suitable for automation
- v. Which test cases are right candidates for automation
- vi. Which are not right candidates for automation

### 2) Automation Efforts Estimation

- i. POC preparation
- ii. CBA & ROI

### 3) Automation Tool Types

- i. Test management Tools
- ii. Functional or Regression Tools
- iii. Performance Tool

### 4) License Types

- i. Floating

ii. Node Lock

## **5) QTP Introduction**

i. About QTP

ii. Support OS & Browsers

## **6) About QTP utility programme**

i. Add In Manager

ii. QTP supported Technologies

## **7) QTP window or QTP Editor Components ( 6 / 11 Panes)**

i. Test Pane ( key word view and expert view)

ii. Data table

iii. Active screen

iv. Debug viewer -- Upto 8.2

v. Information pane

vi. Missing resource Pane --- Upto 9.2

vii. Test flow

viii. Available key words

ix. Resources

x. To Do

xi. Process guidance

## **8) Record & Play back**

i. Recording Process

ii. Playback

iii. Analyze the test result

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iv. QTP Test folder structure

## 9) VB Script Concepts

- i. Variables
- ii. Data Types
- iii. Operators
- iv. Control flow statements
- v. Built In Functions

## 10) Object Identification

- i. Environment
- ii. Object Classes
- iii. Properties
  - a. Mandatory
  - b. Assistive
  - c. Ordinal Identifier
  - d. Enable Smart Identification
    - i. Base Filter
    - ii. Option Filter

## 11) Object Repository

- i. About Object Repository
- ii. Object Repository wizard features (Add object to local, Highlight obj from app, update object, etc..)
- iii. Object Spy
- iv. Types of Object repository
  - 1. Local Object Repository (.BDB)

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## 2. Shared Object Repository (.TSR)

v. OR Creation & associate Shared object repository

vi. Object Methods

### 12) Object Repository manager

i. Create shared OR

ii. Compare Two TSR files

iii. Merge Two TSR files

### 13) DOM Technology

### 14) Step Generator

### 15) Scripting

### 16) Test object Methods

i. GetToProperty

ii. GetToProperties

iii. SetToProperty

iv. GetRoProperty

### 17) Recording modes

a) Standard recording

i. Normal or Default

ii. Low level Recording

iii. Analog

### 18) Virtual object

### 19) Run Modes

i. Normal or Default - i) Normal & ii) Fast

ii. Maintenance Run mode -i)Normal

iii. Update - i) Normal & ii) Fast

## **20) Test batch Runner**

i. About the Test Batch Runner

ii. Batch creation

iii. Batch execution

## **21) Synchronization**

i. About Synchronization

ii. Types of Synchronization

1. Static

2. Dynamic

iii. Settings

## **22) Action**

i. About the Action

ii. Types of Action

1. Reusable

2. Non Reusable

3. External

iii. Types of Action based on Location

1. Independent

2. Nested Action

iv. Insert Commands

1. Call to new action



2. Call to Copy of Action

3. Call to Existing Action

v. Action property Wizard

vi. Split Action

vii. Action Template

### **23) Exit statements**

i. ExitRun

ii. ExitTest

iii. ExitTestIteration

iv. ExitAction

v. ExitActionIteration

### **24) Reporter**

i. About the Reporter utility object

ii. Reporter Methods

1. Reporter Event

2. Filter

3. Reporter Path

4. Run Status

### **25) Error Handling**

i. On Error resume next

ii. On Error GoTo 0

### **26) Parameters**

i. Environment variables

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ii. Test Parameters

iii. Action Parameters

iv. Random numbers

v. Data table parameters

## 27) Parameterization with Data Driver

### 28) Case Sensitive areas

i. Data table parameter name (Column)

ii. Data table Sheet name

iii. Object Property name

iv. Environment Parameter

v. Test parameter name

vi. Action Parameter

vii. External Environment variable Xml Nodes