

Dear Student,

Based upon your enquiry we are pleased to send you the course curriculum for JMeter

Given below is the brief description for the course you are looking for: -

Introduction to Performance Testing

Key Points to understand performance Testing

what is Load Testing

what is Ramp-up period

what is Business Process

What is Thread

What is sampler

Introductions to performance Testing tools

Introductions to performance Requirements

What is performance testing Life Cycle

How to create performance Testing Test Plan

What is performance testing Bench Mark Criteria

How to Identify Bottlenecks

Generating different reports and Analysis

Jmeter Introduction

Jmeter Introduction

How to install JMeter installation

How to configure classpath

How to Launch Jmeter Interface

Overview of Jmeter Features

What is Jmeter Test Elements

How to create Test Plan to test websites

Different settings applicable in Jmeter

Different Results of Test Plan

Saving and Loading Elements

How to removing and adding Test Elements

How To Use Jmeter for HTTP Proxy Server Testing

How to Recording steps on a website
Implementing HTTP Proxy server
How to configure the browser for recording the test script
Firefox Mozilla configuration for recording test
Chrome configuration for recording script
How to Configuring IE
Recording and Playback on sample site

what is Thread Group

Elements of Test Plan discription
Introduction to Thread Group
Explanation of Thread group - control panel
What is single Thread Group test
what is multiple Thread Group test
Thread Group setup
what is tearDown Thread Group
Thread Group and Test Plan interaction
How to create Custom Thread Groups
External plugins for Jmeter configuration
What is Stepping Thread Group
What is Ultimate thread group

Explanation of Samplers

What is HTTP Request
What is FTP Request
What is JUnit Sampler
What is TCP Sampler
What is OS Process Sampler
What is JDBC Sampler
What is Test Action
What is SOAP/XML-RPC Sampler
What is Webservices Sampler

Explanation of Logic Controllers

What is Once Only Controller
What is Random Controller
What is Random Order Controller
What is Loop Controller
What is Interleave Controller
What is Recording Controller
What is Simple Controller
what is Throughput Controller
How to create Runtime Controller
what is IF Controller
what is While Controller
what is Switch Controller
Explanation of Module Controller
Explanation of Include Controller
Explanation of For Each Controller
Explanation Transaction Controller

Detail Explanation Pre and Post Processors

What is Pre and Post Processors
What is HTML link Parser
What is HTTP URL rewriting modifier
How to add User Parameters
Where to use Regular Expression Extractor
What is XPath Extractor
How to manage Result status handler
How to Debug Post Processor
What is Assertion results listener
How configure HTTP Cookie Manager

How to use Timers in Jmeter

What is Constant Timer

What is Gaussian Random Timer
What is Uniform Random Timer
What is Poisson Random Timer
What is Synchronizing Timer
What is Constant Throughput Timer

How to use Assertions in Jmeter

Detail Explanation of Assertions
What is the Duration Assertion
What would be the Size of Assertion
What is XML Assertion
What is XML Schema Assertion
What is HTML Assertion
What is Response Assertion
What is XPath Assertion
how to Compare Assertion

How to Configuration Jmeter Test Elements

Introduction to Config Elements
What is Counter in Jmeter
Explanation of Random Variable
How to create FTP Request Defaults
Setup Login Config Element
What is HTTP Request Defaults
What is Java request Defaults
How to create user defined Variables - UDV
Explanation of CSV Data Set Config
Explanation of HTTP Authorization Manager
What is HTTP Cookie Manager

Explanation of Jmeter Listeners

Listeners Introduction
What is Aggregate Report
What is Aggregate Graph

How to view Results Tree
How to view Results in Table
What is Summary Report
What is Simple Data Writer
What is Graph Results
How to Save Responses to file
How to Generate summary result
What is Response time graph
What do you mean by Monitor results
Introduction to Spline Visualizer
What is Mailer Visualizer
What is Distribution Graph (Alpha)
Explanation of Assertion Results
How to compare assertion results

What is Jmeter Functions

threadNum
what is intSum
What is longSum
What is doubleSum
What is StringFromFile
Understanding javaScript
Introduction to BeanShell
what is machineIP
What is machineName
What is TestPlanName
What is log function
What is Random function
what do you understand by RandomString
what is property function
What is setProperty
What is time function
What is samplerName
What is FileToString

Custom Functions / User defined Functions

Introduction to Bean Shell Scripting

Introduction to BeanShell Scripting
How to Set up BeanShell
Introduction to Eclipse IDE
Introduction to BeanShell Scripting Syntax
what is BeanShell Samplers
what is BeanShell Pre-processor
what is BeanShell post-processor
what is BeanShell Assertion
What is BeanShell Timer
What is BeanShell Listener

BSF Scripting introduction in Jmeter

what is BSF scripting and what its use in Jmeter
how to Set up BSF
Understanding BSF Syntax
how to write BSF -- JavaScript
how to write BSF -- Groovy

How to test Database using Jmeter

Database Testing with JMeter
How to Set up jar files
Creating JDBC connection with Oracle
what is Select Statement
what is Update Statement
what is Insert Statement
what is Delete Statement
what is Create Statement

how to use Use parameterization

How to Test Webservices using Jmeter

Webservices Introduction

What do you understand by WSDL

What is UDDI

What is SOAP Message (Request & Response)

What is Test Plan for Webservice

What do you understand by Webservice/SOAP Sampler

Introduction to SOAP UI Tool

Example of Freely exposed Webservice over Internet

How to Set up Xampp and MySQL DB

what is Inhouse Retail Project - Example

Real time end to end scripting example

How to test End to End Scenario using Jmeter

Performance Testing for Non-GUI and Distributed Mode using Jmeter

How to perform Test Execution

how to Execute tests in Non Gui mode

How to Edit a test plan in a text/XML editor

How to evaluate Jmeter test results in Non-gui mode

What is GUI support to view reports

What is Aggregate Report - load jtl file

How to Execute tests in Distributed mode

How to Configure the nodes

How to Start the servers

How to Configuring Jmeter Properties File

Explanation of distributed execution from a GUI client

What is distributed execution from a NON-GUI

How to perform Report Analysis and Monitoring Resources

what are the Statistics available from JMeter
what do you understand by Average, Median, Deviation
Understanding Throughput, 90 Percentile
How to do Server Monitoring using jmeter plugin
How to perform Resource Utilization Monitoring
Perfmon metric collector listener
what is ServerAgent batch file
Blazemeter Plugin
Memory usage & Server metrics such as CPU
Monitoring & analyzing CPU resources
Monitoring memory utilization in Jmeter
How to Drive JMeter tests using Ant

How to Test Restful Webservices using Jmeter

What is Restful Webservices
What is SOAP - WSDL, XML SOAP Message
Introduction to REST based API
Understanding HTTP Methods- GET, POST, DELETE, PUT
Understanding MIME TYPES - JSON, XML
Understanding CRUD Operations from Jmeter
How to Send Post Request from Jmeter
How to Send JSON Payload
What is Asserting JSON Response

How to perform File download and upload using Jmeter

How to Uploading a file on server
How to download file from server

How to Integrate Jmeter with selenium

Selenium WebDriver with Junit scripting
Jmeter Integration with selenium

Memory usage

Explanation to JDBC MYSQL DB Connectivity

Performance Testing Introduction

Introduction to Performance Testing of Web applications

Technical Jargon -

-Functional/Regression Testing

-Load Testing

-Ramp-up

-Threads/Users

-Business Process

Performance Testing Tools

Performance Testing requirements/needs

Performance Test Life Cycle

Performance Test Planning

Load Modelling

Scripting

Bench marking performance criteria

Loading the test

Reports generation and Analysis

Bottlenecks identification

Jmeter Introduction

Introduction to Jmeter

JMeter installation

configuring classpath

Launching Jmeter Interface

Get to know Jmeter Features

Overview of Jmeter Test Elements

Create a basic Test Plan to test websites

Executing tests with different settings

Reading Results of Test Plan

Adding and Removing Elements

Loading and Saving Elements

Working with HTTP Proxy server

Recording steps on a website

Using HTTP Proxy server

Configuring the browser for recording the test script

Configuring Firefox Mozilla
Configuring Chrome
Configuring IE
Record and Playback on sample site

Thread Group

Detailed look at Elements of Test Plan
Thread Group Introduction
Thread group - control panel
Single Thread Group test
Multiple Thread Group test
setUp Thread Group
tearDown Thread Group
Test plan and Thread Group interaction
Custom Thread Groups
How to add external plugins for Jmeter
Stepping Thread Group
Ultimate thread group

Samplers

HTTP Request
FTP Request
JUnit Sampler
TCP Sampler
OS Process Sampler
JDBC Sampler
Test Action
SOAP/XML-RPC Sampler
Webservices Sampler
Debug Sampler

Logic Controllers

Once Only Controller
Random Controller
Random Order Controller
Loop Controller
Interleave Controller
Recording Controller

- Simple Controller
- Throughput Controller
- Runtime Controller
- IF Controller
- While Controller
- Switch Controller
- Module Controller
- Include Controller
- For Each Controller
- Transaction Controller

Pre and Post Processors

- Pre and Post Processors
- HTML link Parser
- HTTP URL rewriting modifier
- User Parameters
- Regular Expression Extractor
- XPath Extractor
- Result status handler
- Debug Post Processor
- Assertion results listener
- HTTP Cookie Manager

Timers

- Constant Timer
- Gaussian Random Timer
- Uniform Random Timer
- Poisson Random Timer
- Synchronizing Timer
- Constant Throughput Timer

Assertions

- Why Assertions
- Duration Assertion
- Size Assertion
- XML Assertion
- XML Schema Assertion
- HTML Assertion
- Response Assertion

XPath Assertion
Compare Assertion

Configuration Elements

Config Elements Introduction
Counter
Random Variable
FTP Request Defaults
Login Config Element
HTTP Request Defaults
Java request Defaults
User Defined Variables - UDV
CSV Data Set Config
HTTP Authorization Manager
HTTP Cookie Manager

Listeners

Introduction to Listeners
Aggregate Report
Aggregate Graph
View Results Tree
View Results in Table
Summary Report
Simple Data Writer
Graph Results
Save Responses to file
Generate summary result
Response time graph
Monitor results
Spline Visualizer
Mailer Visualizer
Distribution Graph (Alpha)
Assertion Results
Comparison assertion results

Jmeter Functions

threadNum
__intSum
__longSum

__doubleSum
__StringFromFile
__javaScript
__BeanShell
__machineIP
__machineName
__TestPlanName
__log
__Random
__RandomString
__property
__P
__setProperty
__time
__samplerName
__V
__FileToString
Custom Functions / User defined Functions

Bean Shell Scripting

Introduction to BeanShell Scripting
Setting up BeanShell
Eclipse IDE
BeanShell Scripting Syntax
BeanShell Samplers
BeanShell Pre-processor
BeanShell post-processor
BeanShell Assertion
BeanShell Timer
BeanShell Listener

BSF Scripting

Introduction to BSF
Setting up BSF
BSF Syntax
BSF -- JavaScript
BSF -- Groovy
BSF -- BeanShell

Testing Database with Jmeter

Database Testing with JMeter
Setting up jar files
JDBC with Oracle
Select Statement
Update Statement
Insert Statement
Delete Statement
Create Statement
Using parameterization

Testing Webservices with Jmeter

Introduction to Webservices
WSDL
UDDI
SOAP Message (Request & Response)
Test Plan for Webservice
WebService/SOAP Sampler
SOAP UI Tool
Freely exposed Webservice over Internet -
Example
Set up Xampp and MySQL DB
Inhouse Retail Project - Example

Connecting the dots - Real time end to end scripting example

End to End Scenario

Jmeter in Non-GUI and Distributed Mode

Test Execution
Executing tests in Non Gui mode
Editing a test plan in a text/XML editor
Jmeter test results in Non-gui mode
GUI support to view reports
Aggregate Report - load jtl file
Executing tests in Distributed mode
Configure the nodes

Start the servers
Configuring Jmeter Properties File
Distributed execution from a GUI client
Distributed execution from a NON-GUI

Report Analysis and Monitoring Resources

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Average, Median, Deviation
Throughput, 90 Percentile
Server Monitoring using jmeter plugin
Resource Utilization Monitoring
Perfmon metric collector listener
ServerAgent batch file
Blazemeter Plugin
Server metrics such as CPU & Memory usage
Monitoring and analyzing CPU resources
Monitoring memory utilization
Driving JMeter tests with Ant

Testing Restful Webservices

Restful Webservices
SOAP - WSDL, XML SOAP Message
REST based API
HTTP Methods- GET, POST, DELETE, PUT
MIME TYPES - JSON, XML
CRUD Operations from Jmeter
Sending Post Request from Jmeter
Sending JSON Payload
Asserting JSON Response

File download and upload

Uploading a file on server
File downloading from server

Connecting with MYSQL Database

JDBC MYSQL DB Connectivity

Fees: - Call at 9015041412 to know Fee

Duration: - 2 to 2.5 Months

Trainer Profile

- Having **8 years** of experience in Software Testing.
- **6 years** dedicated experience in Performance Testing & **2 years** of experience in **Manual, Database, Security, and API Testing.**
- Expertise in Performance Requirements Gathering, Test Strategy Design & Test Planning, Scripting, Application Monitoring and Test Report creation.

Proficient in Performance Testing Tools such as **HP Load Runner, Neo Load, Jmeter.**