



## JMeter

### JMeter Training Syllabus

#### Java Basics:

- What are Classes and Objects?
- What are Methods and Functions?
- What is Inheritance?
- What is Encapsulation?
- Polymorphism?
- Constructors and Destructors?
- Sample Java program via notepad and command prompt?
- Sample Java program via Eclipse tool?

#### Introduction to JMeter:

- What is JMeter?
- History of JMeter.
- Pros and cons of JMeter.
- Pre-requisites to install JMeter.

#### Configuring JMeter in Easy Steps:

- Sharing software's and relevant dependencies.
- Installing suitable version of Java.
- Setting up environment variables for JMeter and Java.

#### Components of JMeter:

- Test Plan
- Thread Groups
- Workbench
- Config Elements
- Timers
- Pre Processors
- Post Processors



- Assertions
- Listeners

## How to do scripting with Recording and Replay Functionality:

- How to record?
- Dos and Don'ts during recording.
- How to replay?
- Dos and Don'ts during replay.
- How to debug the recorded code?

## Data Driven or Parameterization using CSV files:

- Data driven of input data using inbuilt JMeter control.
- Parameterization of input data from EXCEL sheet.
- Live example with parameterized script.

## Page Verification and Validation:

- Validating the web pages using JMeter controls
- Ensuring that all the web pages are loaded during execution.
- Live example with page verification and validation.

## Handling Dynamic Web Pages:

- Doing Scripting in such a way that it should not fail even the web pages changes dynamically for every loop.
- Introducing the concept called correlation to handle dynamic web pages recording and replay.
- Live example with scripting on dynamic applications.

## Different Types of Testing using JMeter:

- **Load/Stress testing:** how to design and execute load test using JMeter controller.
- **Endurance Testing:** How to design and execute endurance test or long lasting testing.



- **Functional Automation Testing:** How to do automation testing using JMeter.
- **Regression Testing:** How to do testing on regressive/repeated test cases
- **Database Testing:** How to put load on particular database query and get the response time of the respective query.

### Performing Distributed Testing:

- Configuration for doing distributed testing.
- How to share the test across the computers which are in different locations.
- How to share the load injectors to share the virtual users during load test.

### Other Important Features of JMeter that we cover:

- Plugin for generating automated load test results and graphs
- Plugin for Server Monitoring of apache servers
- Plugin for Load testing on Oracle Database
- Result analysis with third party website.
- Handling web service based applications.

### By the End of the Session:

- We will provide you all the paper works done by us.
- We will provide certificate from our institute for every successful completion of course.
- We will guide you other technologies that we offer on the relevant subject, that you could make use of.
- You will be one among the capable JMeter resource wanted by the reputed corporates.