

JMeter Training Syllabus

1. Java Basics

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

2. Introduction to JMeter

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

3. Configuring JMeter in Easy Steps

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

4. Components of JMeter

- Test Plan, Thread Groups & Workbench
- Config Elements, Timers
- Pre Processors, Post Processors, Assertions, Listeners

5. 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?

6. 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

7. 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

8. Handling Dynamic Web Pages

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

9. 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

10. 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

11. 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