



Performance Testing using JMeter

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:

JMeter Course Content

<ul style="list-style-type: none">● Introduction to Performance Testing<ul style="list-style-type: none">▪ Load Testing▪ Stress Testing▪ Spike Testing▪ Threads/Users▪ About various tools for Performance Testing▪ Performance Test Life Cycle▪ Performance Test Plan▪ Report Generation▪ Report Analysis	<ul style="list-style-type: none">● JMeter: An Introduction<ul style="list-style-type: none">▪ About JMeter▪ JDK Installation▪ Classpath Configuration▪ Launching JMeter▪ Understand JMeter User Interface▪ Create Test Plan▪ Add/Remove elements in Test Plan▪ Test Execution▪ Report Analysis
<ul style="list-style-type: none">● Record and Play Test: Using HTTP Proxy Server<ul style="list-style-type: none">▪ About HTTP Proxy Server▪ Browser IE for recording test script▪ Browser Chrome for recording test script▪ Record and play a sample test	<ul style="list-style-type: none">● Thread Group<ul style="list-style-type: none">▪ About Thread Group▪ Thread Group Test: Single / Multiple user▪ Setup and TearDown Thread Group▪ Test Plan▪ Custom Thread Group
<ul style="list-style-type: none">● Samplers	<ul style="list-style-type: none">● Controllers

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<ul style="list-style-type: none"> ▪ HTTP Request ▪ FTP Request ▪ Junit Samplers ▪ JDBC Samplers ▪ TCP Samplers ▪ SOAP / XML-RPC Samplers ▪ OS Process Samplers ▪ Test Actions ▪ WebServices Samplers ▪ Debug Samplers 	<ul style="list-style-type: none"> ▪ Logic Controllers ▪ Once Only Controller ▪ Random Controllers ▪ Random Order Controllers ▪ Loop Controller ▪ Recording Controller ▪ Simple Controller ▪ Interleave Controller ▪ Simple Controller ▪ Runtime Controller ▪ Throughput Controller ▪ If, while, switch, module, Include, For each Controller ▪ Transaction Controller
<ul style="list-style-type: none"> • Pre and Post Processors <ul style="list-style-type: none"> ▪ About Pre and Post Processor ▪ HTML Link Parser ▪ User Parameters ▪ HTML Link Parser ▪ HTTP URL Rewriting Modifier ▪ Regular Expression Extractor ▪ Xpath Extractor ▪ Result Status Handler ▪ Assertion Result Listener ▪ Debug Post Processor ▪ HTTP Cookies Manager 	<ul style="list-style-type: none"> • Timers <ul style="list-style-type: none"> ▪ About Timer ▪ Constant Timer ▪ Uniform Random Timer ▪ Gaussian Random Timer ▪ Poisson Random Timer ▪ Synchronizing Timer ▪ Constant Throughput Timer



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<ul style="list-style-type: none">• Assertions<ul style="list-style-type: none">▪ About Assertions▪ Why Assertions▪ Duration Assertion▪ Size Assertion▪ XML Assertion▪ XML Schema Assertion▪ HTML Assertion▪ Response Assertion▪ XPath Assertion▪ Compare Assertion	<ul style="list-style-type: none">• Configuration Element<ul style="list-style-type: none">▪ About Configuration Elements▪ Counter▪ Random Variable▪ FTP Request Default▪ Login Config Element▪ HTTP Request Default▪ JAVA Request Default▪ User Define Variables▪ CSV Data Set Config▪ HTTP Authorization Manager▪ HTTP Cookie Manager
<ul style="list-style-type: none">• Listeners<ul style="list-style-type: none">▪ About Listeners▪ Aggregate Report▪ Aggregate Graph▪ View Result Tree▪ View Result in Table▪ Summary Report▪ Simple Data Writer▪ Graph Results▪ Save Response in File▪ Summary Result▪ Response Time Graph	<ul style="list-style-type: none">• JMeter Functions<ul style="list-style-type: none">▪ <code>_threadNum</code>▪ <code>_intSum</code>▪ <code>_longSum</code>▪ <code>_doubleSum</code>▪ <code>_StringFromFile</code>▪ <code>_javascript</code>▪ <code>_beanShell</code>▪ <code>_machineIP</code>▪ <code>_machineName</code>▪ <code>_testPlanName</code>▪ <code>_log</code>

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<ul style="list-style-type: none"> ▪ Monitor Results ▪ Spline Visualizer ▪ Mailer Visualizer ▪ Distribution Graph ▪ Assertion Result ▪ Comparison Assertion Result 	<ul style="list-style-type: none"> ▪ _Random ▪ _RandomString ▪ _property ▪ _P ▪ _setProperty ▪ _time ▪ _samplerName ▪ _V ▪ _FileToString ▪ Custom / User Define Function
<ul style="list-style-type: none"> • Bean Shell Scripting <ul style="list-style-type: none"> ▪ About Bean Shell Scripting ▪ Setting up BeanShell ▪ BeanShell Scripting Syntax ▪ BeanShell Samplers ▪ BeanShell Pre-Processors ▪ BeanShell Post-Processors ▪ BeanShell Assertions ▪ BeanShell Timer ▪ BeanShell Listener 	<ul style="list-style-type: none"> • BSF [Bean Scripting Framework] Scripting <ul style="list-style-type: none"> ▪ About BSF ▪ Setting BSF ▪ BSF Syntax ▪ BSF – JavaScript ▪ BSF – Groovy ▪ BSF – BeanShell
<ul style="list-style-type: none"> • Testing Database with JMeter <ul style="list-style-type: none"> ▪ Setting jar Files ▪ Connection with MySQL ▪ Select Statement ▪ Insert Statement 	<ul style="list-style-type: none"> • Testing WebServices with JMeter <ul style="list-style-type: none"> ▪ Introduction to WebServices ▪ WSDL ▪ UDDI ▪ SOAP Message (Request &

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<ul style="list-style-type: none"> ▪ Update Statement ▪ Delete Statement ▪ Create Statement ▪ Parameterization 	<p>Response)</p> <ul style="list-style-type: none"> ▪ Test Plan for WebServices ▪ WebService / SOAP Sampler ▪ SOAPUI Tool ▪ Setup Xampp
<ul style="list-style-type: none"> • JMeter in NON-GUI and Distributed Mode <ul style="list-style-type: none"> ▪ Test Execution in Non – GUI Mode ▪ Editing a Test Plan in Text / XML Editor ▪ Test Result in Non-GUI Mode ▪ Aggregate Report ▪ Nodes Configuration ▪ Start Server ▪ JMeter Properties Configuration File 	<ul style="list-style-type: none"> • Report Analysis and Resource Monitoring <ul style="list-style-type: none"> ▪ Statistics from JMeter ▪ Average, Median and Deviation ▪ Throughput, 90 Percentile ▪ Server Monitoring using JMeter ▪ Resource Utilization Monitoring ▪ Perform Metric Collection Listener ▪ ServerAgent Batch File ▪ Blazemeter Plugin ▪ CPU and Memory Usage ▪ Monitor and Analysis CPU resource ▪ Memory Utilization ▪ Configuration with Apache ANT