Curriculum for Selenium (V1.0) Training for Deployment of Bench Employees

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**1-Introduction to Java**

• Setting Development Environment –Eclipse

• OOPs concept

**2-Introduction to Selenium**

• What is Selenium?

• Use of Selenium

• When Selenium can be useful in testing

• Features of Selenium

• Difference between Selenium and QTP

• Selenium Components

• Locators

**3-Selenium IDE and RC**

**4-Selenium Functions and Applications (Theory PART)**

• Tests the knowledge of coding logic

• Refactoring and use for methods within Selenium.

**5-Selenium WebDriver**

•Overview of WebDriver

•Introduction to browser specific drivers

•Setup Web Driver package on system for eclipse

•Set up firebug for Firefox

•Automating different HTML Elements text fields, buttons, links, check box, drop-down etc

•Verifications and Assertions

•Desired Capabilities and IE

•SwitchTo Command -Handling Frames, Popup Windows.

•Concept of Synchronization

•Introduction of Selenium Grid

•Setting of Hub and Node in same system for parallel execution

•Usage of Selenium Grid, executing same test on different browsers

**6. Selenium with Plugins and User Extensions**

• Use of various Plug-ins with Selenium WebDriver

• Use of build and continuous integration tools.

**7-TestNg Annotations**

•Creating Test using TestNg

•TestNg Annotations

•Explanation of TestNg XML

**8-Apache POI and Log4J**

**9 -Automation Frameworks**

• Hybrid Testing Framework using POM, TestNG

• Keyword driven and data driven

• BDD framework using Cucumber

**10 -Extent Reports**

•Apache POI and Log4J11 -Continuous Integration with Git (Theory part –if environment is Not available