# Selenium Automation Installation and Training Materials

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**1) Install Java 7 SDK**

Java 8 is having compatibility issues with maven.  Install Java 7 from below URL.

[**http://www.oracle.com/technetwork/java/javase/downloads/jdk7-downloads-1880260.html**](http://www.oracle.com/technetwork/java/javase/downloads/jdk7-downloads-1880260.html)

a) Setting Path:  Set PATH in user variable section as “C:\Program Files\Java\jdk1.7.0\_67\bin”

b) Set “JAVA\_HOME” in system variable section  as C:\Program Files\Java\jdk1.7

c) Set following value for “path” in system variable section as “C:\Program Files\Java\jdk1.7.0\_67\bin”

d) Execute java -version to validate install.

**2) Install Eclipse**

[**https://www.eclipse.org/downloads/packages/eclipse-ide-java-developers/lunar**](https://www.eclipse.org/downloads/packages/eclipse-ide-java-developers/lunar)

**3) Install Intellij community edition**

Download intellij community edition from this url:

[**http://www.jetbrains.com/idea/download/**](http://www.jetbrains.com/idea/download/)

**4) Install TestNG Plugin for eclipse**

TestNG is a testing framework inspired from JUnit and NUnit but introducing some new functionalities that make it more powerful and easier to use, such as:

Open eclipse then go to Help > Install New Software

Then type <http://beust.com/eclipse/> in the “work with” field and select TestNG and Install the plugin.

**5) Install Git Bash**

[**http://git-scm.com/download/win**](http://git-scm.com/download/win)

**6) Git / Maven Commands sheet:-**

1. To know status:git status
2. To add files: git add -A
3. To commit: git commit -m “type message here”
4. To Push: git push  -u origin “branch name”
5. To Clone project: git clone  ssh://git@devops-tools.pearson.com/occ/classroom-ui.git
6. To check out another branch: git checkout “branch name here”
7. To pull changes from origin: git pull
8. Maven Execution: mvn clean install -Dmaven.test.skip=true
9. To register your name and email on stash:

               git config --global user.name “your name here"git

               config --global user.email "your email here"

**7) Install Maven for Windows.**

a) Download Apache Maven

Visit this Maven [official website](http://maven.apache.org/download.html), choose a version and click on the download link, e.g apache-maven-2.2.1-bin.zip.

b) Extract It

Extract the downloaded zip file. In this case, we extracted to d driver and renamed the folder, e.g D:\maven.

c) Add MAVEN\_HOME

Add a new MAVEN\_HOME variable to the Windows environment, and point it to your Maven folder.

d) Add PATH

Update PATH variable, append “Maven bin folder” path, so that you can run the Maven’s command everywhere.

e) Verification

Done, to verify it, in command prompt, type “mvn –version“.

C:\Documents and Settings\mkyong>mvn -version  
Apache Maven 2.2.1 (r801777; 2009-08-07 03:16:01+0800)  
Java version: 1.6.0\_13  
Java home: C:\Program Files\Java\jdk1.6.0\_13\jre  
Default locale: en\_US, platform encoding: Cp1252  
OS name: "windows xp" version: "5.1" arch: "x86" Family: "windows"

If you see similar message, means your Apache Maven is installed successfully on Windows.

**8)  Import project in Eclipse/Intellij:-**

a) Follow troubleshooting steps above to resolve importing issues.

b) Import projects as existing maven project.

c) Run a stable test suite and verify stability of test. End point - tests pass, browser loading as expected, no errors reported in logs.

d) Create a practice branch if you have rights. Otherwise use “branch-name/sunil-practice” to run, create new tests for execution.

e) To execute tests in intellij, select particular xml test suite in abd-tests\...\resources\testng-suites. Right click, select create xml config.

Config pops up for that particular xml suite. Select Suite radio button in configuration tab, in JDK settings, Append the following to VM Options, click apply and ok. In working directory field set the project folder. Select access module dependencies.  Use classpath of modules – select "abd" module.

-Dconfigfiles=test-users/educator4.xml,pi-staging-settings.xml,staging-settings.xml,web-test-settings.xml,base-settings.xml -Dbrowser=firefox

f) Double check above steps and hit triangle button as seen below. The configuration points to the xml selected whose configuration was done in the above steps.

g) If everything goes well, we see the following - testNg tests running in left, console logs in right, progress bar and test completion ratio.

**9) Creating Git branch from Stash:-**

a) Click more button next to branch in the branch icon and click create branch from here button. The create branch repository, branch from and branch to should be selected and create branch button should be clicked.

**10) Creating a pull request**

a) Go to project in stash

b) Click pull request button in the right hand column as seen below

c) In the pull request dashboard, select source branch – and destination branch. Add reviewers (Eg. ABD). Click :Create pull request” button

d) Once you open pull request, we can see request number, source and destination branch, options to merge and approve, modified files encased in their folders, actual code modifications and ability to comment on changes. If there is a merge conflict do manual merge using Intellij.