|  |  |  |
| --- | --- | --- |
| **Classroom & Student Machine Setup Guide** | | |
| **Course** | | **TT3650 Selenium/Cucumber Setup** |
| **Tools** | | Java 8, Eclipse Oxygen for Java EE Developers |
| **Issue Date** | | 2018/03/16 |
|  |  | |
| **Customer** | | **JPMC** |
| **Class Dates(s)** | |  |
| **Internet Access** | | * Internet access for the Instructor and Students is **required**. See below for details. |

Thank you for choosing our team as your education partner for your upcoming training engagement.

Course Format: Your course is an instructor-led, onsite training event with hands-on programming labs for students to complete throughout the course. Student machines are required. Below, please find the system requirements and software/lab code download links with installation instructions needed for the course.

Setup Requirements: Please ensure all machines have been fully installed by the facility set up team or students, whichever applies, at least three business days prior to the course start date so our team has ample time to provide assistance addressing any issues as needed. Please note that the student labs and course materials have been tested and verified to support the environment and tools listed in this document. We cannot guarantee proper lab function if the student chooses to use tools that differ from the requirements listed in this guide.

General Environment Info for Internet and Student Machine Access: Our set up team will follow up with you to review the items below in order to advise the instructor of additional onsite requirements or process for accessing the internet and distributing course files or other items.

**Internet access**

Please review the internet access requirements listed below for this course. If internet access is being provided by your facility, we will need to receive in advance of the class start date:

* Guest network access ID or internet access process for the trainer to get online
* Any student internet access information the trainer needs to distribute to the attendees, if necessary
* An onsite support contact for trainer to get support for any access issues for the Trainer or Students

**Student Machine Installation Rights / Additional Class Files**

* We generally require that all software listed in this document is completely installed and verified prior to the course start date, but in some cases the instructor may bring the lab code and solution files to class, or ebook PDFs or other documents to distribute at class time. **Please advise if this is allowed, or not, so we can advise the instructor on your process or student machine capabilities**
* If allowed, trainers generally provide these additional files through web access or USB distribution
* Please advise if students are limited from receiving or installing such files or other items at class time, or if their student machines admin rights are limited in any way

Any Questions? Please contact our classroom support team at Support@triveratech.com or call 208-589-5659 if you have questions about these requirements or require assistance.

HARDWARE REQUIREMENT SUMMARY

Hardware

Student machines should have at least 10G free disk space

Internet Connectivity

**Required**: Internet connectivity is **required** for this course. The Cucumber portion of this course requires internet to access tools as well as to test active websites. Please contact Trivera immediately if this is an issue.

RAM

* 4 GB RAM or more for optimum lab performance
* If your organization intends to create an image from the required items listed below, please note that virtualization software such as VMWare, VirtualPC, or 64-bit, requires **4GB to 8GB RAM** to ensure proper speed and performance

O/S

Windows 7 Professional/Ultimate, Windows 8.0/8.1 or Windows 10

ADDITIONAL CLASSROOM ITEMS

Projector

Please supply the following items for the classroom for trainer use and presentation. Please advise asap if these are not available for some reason:

* Please have a modern capability **PC-Ready projector** for the trainer to connect to, and wall screen area, onsite for the Instructor Presentation
* **NOTE:** Please advise whether the projector is VGA or HDMI capable (or both, if it is setup for both)

Drawing Area

* Please supply a **whiteboard and dry erase markers** (preferred) **or easel pad and markers** for discussions and diagrams

SOFTWARE REQUIREMENT SUMMARY

Please see the overview at the end of this document for download links and detailed installation, verification and removal steps for these software requirements:

* Adobe Acrobat Reader 10.x/11.x (or higher versions)
* A zip utility such as 7Zip
* Student Lab Files – will be provided by our technical team
* Mozilla FireFox 54.0.1
* Selenium IDE
* Firebug and FirePath plug-ins
* Oracle Java 8 Dev. Kit (JDK) Standard Edition
* Eclipse Oxygen for Java EE Developers

Adobe Acrobat Reader 10.x/11.x

Download Location:

* <http://get.adobe.com/reader/>

About:

Older versions of Acrobat are acceptable as well. Based on security issues, we recommend that clients move to version 10 or higher.

**NOTE:** The instructor will use PDF files to display the course materials to the class. Also, the students should have the ability to view relevant PDF files, e.g., Java specification documents.

Verification Steps:

* Run the software from the Windows Start Menu and ensure the software starts up
* Shutdown the software once you have checked it

Removal Steps:

* Uninstall this software from the Windows Control Panel using the Add/Remove utility

7Zip

Download Location:

* <http://www.7-zip.org/download.html>

About:

7Zip is a free file compression and decompression software suite.

Other ZIP-compatible utilities can be used instead (including WinZip, 7Zip, WinRAR, etc.)

**NOTE:** Please do not rely on the zip file facilities that come standard with Windows. We have found them to be unreliable in terms of interoperability with other systems and in the handling of large files.

Installation Steps:

Run the 7Zip installation utility, accepting defaults.

Verification Steps:

* Run the software from the Windows Start Menu and ensure the software starts up
* Shutdown the software once you have checked it

Removal Steps:

* Uninstall this software from the Windows Control Panel using the Add/Remove utility

Student Lab Files

About:

We will provide the student lab files via a download link during the week prior to the class start date, or the trainer will bring the labs to class to distribute on the first day.

If you need the lab files earlier, please let us know as soon as possible.

Installation Steps:

* The student lab files will be in a ZIP archive file. The lab files will need to be extracted onto each student machine

Removal Steps:

* Delete the StudentWork folder as well as any additional folders (such as workspace and database folders) that were created during the course

Mozilla Firefox 54.0.1

Important Note and Actions:

For this training, several browser plugins will need to be installed. Unfortunately, these plugins do not always work properly when an updated version of the browser is released.

At the current time, one of the plugins only works with a specific older version of Firefox.

To avoid any problems during the training, we ask that you install this exact version (**54.0.1**) of the Firefox browser.

Once the browser has been installed, you will need to **disable** automatic updates. Instructions on how this is done will be described below.

Download Location:

* <https://ftp.mozilla.org/pub/firefox/releases/54.0.1/win32/en-US/>
* <https://ftp.mozilla.org/pub/firefox/releases/54.0.1/win64/en-US/>

Download Instructions:

If you are running a 32-bit operating system, go to <https://ftp.mozilla.org/pub/firefox/releases/54.0.1/win32/en-US/> and click on the link **Firefox Setup 54.0.1.exe** to download the installer.

If you are running a 64-bit operating system, go to <https://ftp.mozilla.org/pub/firefox/releases/54.0.1/win64/en-US/> and click on the link **Firefox Setup 54.0.1.exe** to download the installer.

Installation Steps:

* Once the installer has been downloaded, disconnect from the Internet. This will prevent any updates so you will have time to disable automatic updates
* Run the installer and install into the default location

**Disable** automatic updates

By default, the browser will automatically download and install a new version as soon as it becomes available. This behavior needs to be disabled.

* Start Firefox
* Select the **Menu** button in the upper-right corner
* Select **Options**
* In the option Pane, select the **Advanced** menu option
* Click on the **Update** tab
* Select the **Never check for updates (not recommended: security risk)** option
* Unselect the **Use a background service to install updates** option
* Once the updating process has been disabled, you can reconnect to the Internet

Verification Steps:

* Start Firefox
* Select the **Menu** button in the upper-right corner
* Open the **Help Menu** by clicking on the **question mark** icon at the bottom right corner of the menu
* Click on **About Firefox**

Make sure the installed version is **54.0.1**

A **Check for updates** button should be displayed. This is an indication that updates will no longer be installed automatically

Selenium IDE

Download Location:

* <https://addons.mozilla.org/en-US/firefox/addon/selenium-ide>

About:

At the time of writing the Selenium IDE does not work with the latest versions of Firefox

To avoid any problems during the training we ask that version ( **54.0.1** ) of the Firefox browser has been installed

Installation Steps:

* Using Firefox open <https://addons.mozilla.org/en-US/firefox/addon/selenium-ide/>

When the **Add to Firefox** button is not enabled you will have to manually download the pluging (as described below) otherwise:

* Click the **Add to Firefox** button
* Click the Install button and, when asked, restart Firefox

When the **Add to Firefox** button can not be selected

* Click on the **Download Anyway** link
* Save the file ( **selenium\_ide-2.9.1.xpi** ) to your local filesystem
* Open the explorer and navigate to the download location
* Select the file and drag it into the FireFox window
* Click the **Install** button and, when asked, restart Firefox

Verification Steps:

* Open the **Tools** menu, if the menu toolbar does not appear, right-click on a blank space next to an open tab, and select **Menu Bar**
* Select the Selenium IDE option, this will open the Selenium IDE pop-up

Firebug and FirePath

Download Location:

* <https://addons.mozilla.org/en-US/firefox/addon/firebug/>
* <https://addons.mozilla.org/en-US/firefox/addon/firepath/>

Installation Steps:

* Open <https://addons.mozilla.org/en-US/firefox/addon/firebug/>
* Click the **Add To Firefox** button
* Click the **Install** button and, if asked, restart Firefox
* Open <https://addons.mozilla.org/en-US/firefox/addon/firepath/>
* Click the **Add To Firefox** button
* Click the **Install** button and, if asked, restart Firefox

Verification Steps:

* Press the F12 key and the **Firebug** window will open. FirePath will be on the Firebug menu bar

Oracle Java 8 Dev. Kit (JDK) Standard Edition 8.x

Download Location:

* <http://www.oracle.com/technetwork/java/javase/downloads/index.html>

Download Instructions:

* Scroll down to **Java SE 8 Update X** (where **X** will be an update value that changes every few weeks/months)
* Click on the button that reads **Download** that is in the **JDK** column
* On the next page read and accept any license agreements
* Click on the link of the installer for the correct version, 32 bit (x86) or 64 bit (x64), for your platform

Installation Steps:

* Install into the default installation directory, which is **C:\Program Files\Java\jdk1.8.x.** Include all components in the installation. When the installer asks about the location for the JRE also select the default location
* **IMPORTANT:** Modify the system environment variable named **PATH** to include **C:\Program Files\Java\jdk1.8.x\bin.** This variable can be accessed via the **Control Panel -> System -> Advanced -> Environment Variables**
* Create an Environment variable called **JAVA\_HOME** that points to the newly installed jdk (e.g., **C:\Program Files\Java\jdk1.8.x** ) This variable can be created via the **Control Panel -> System -> Advanced -> Environment Variables**

Verification Steps:

* Open a DOS command window and enter "java -version". You should see an indication that Java started and the version matches the one that you installed
* From the same DOS command window, enter "javac". You should see an indication that the Java compiler started. If "javac" is not recognized, the system **PATH** has not been correctly updated. You will need to open a new DOS command window to have the updated Path work
* From the same DOS command window, enter "set". Examine the list of variables that are returned, looking for the JAVA\_HOME variable. The correct value should be assigned to the variable

Removal Steps:

* Uninstall this software from the Windows Control Panel using the Add/Remove utility
* Check the system **PATH** variable to ensure that it no longer has the JDK bin folder included
* Remove the **JAVA\_HOME** Environment variable that was created during setup

Eclipse Oxygen for Java EE Developers

Download Location:

* <http://www.eclipse.org/downloads/packages/eclipse-ide-java-ee-developers/oxygen2>

About:

Eclipse is a Java-based application and requires a Java runtime environment (JRE) in order to run.

In order to be able to run Eclipse Oxygen, **Java 8** needs to be installed on the system.

if you are unable to install Java 8 onto your system contact our classroom support team at Support@triveratech.com

Download Instructions:

* Select the correct version for your platform (OS and either 32 bit or 64 bit). At this point, you can select a mirror to download the zip file
* Save the incoming zip file someplace where you can use it to install Eclipse on the various student PCs to be used for class

Installation Steps:

* Using a ZIP utility, extract all files into **C:\tools**. Make sure to check the “Use folder names” checkbox before extracting – this will preserve the directory structure from inside the zip file

Verification Steps:

* Ensure that the contents of the archive were inserted (with folder structure) into the targeted folder for extraction
* Start Eclipse at least once before doing anything else to let it do a clean initialization. To start Eclipse, navigate to the Eclipse installation folder and double click on **eclipse.exe**
* Shutdown Eclipse when completed

Removal Steps:

* Delete the targeted extraction folder in **C:\tools** as well as any additional folders (such as workspace and database folders) that were created during the course