|  |  |  |
| --- | --- | --- |
| **Classroom & Student Machine Setup Guide** | | |
| **Course** | | **TTPS4827 Mastering Python Programming** |
| **Tools** | | **Python Language 3 and other modules** |
| **Issue Date** | | April 1, 2019 |
|  |  | |
| **Customer** | | **Global Knowledge for Nike** |
| **Class Dates(s)** | | April 8 – 12, 2019 |
| **Internet Access** | | * Internet access for the Instructor and Students is **recommended**. 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.

All of the following elements are REQUIRED, and must be installed and tested prior to the course start date to ensure a smooth start to your training class. Please notify us immediately if your system does not meet the requirements in full.

##### HARDWARE REQUIREMENT SUMMARY

* **Hardware:** 1 gigahertz (GHz) or faster 32-bit (x86) or 64-bit (x64) processor with at least 10G free disk space
* **O/S:** Any OS can be used. Python is open source – see details below.
* **RAM: 8 or more GB RAM or more is required** for optimum lab performance.
* A Headset and Microphone are required for the class.

##### SOFTWARE REQUIREMENT SUMMARY

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

##### A zip utility such as ZipGenius Compression Software

* **Web Browsers: Firefox 7.x or Microsoft Internet Explorer 8.x (or higher versions)**
* **Adobe Acrobat Reader 10.x (or higher versions)**
* **Student Lab Exercise Code – will be provided by our technical team**
* **Python and additional modules – Detailed below**

Any operating system can be used. **Python** is open source. Each student needs a computer (or remote account) with Python, some extra modules, an IDE (Integrated Development Environment), and the student files installed.

There is a separate section in this guide for each platform — Windows, Mac, and Linux.

## NOTE

This setup guide should work in most environments, but is not guaranteed to work in all possible situations. Please call or email your contact with any further questions.

### Steps for installation

Setup for this class requires three separate installation steps:

* 1. Installing **Python**
  2. Installing the lab files specific to this course
  3. Installing **PyCharm**, an Integrated Development Environment for **Python**

### Anaconda vs. python.org installation

There are two approaches you can use for the **Python** installation. You can install the **Anaconda** bundle from **anaconda.com** or install basic **Python**, and then add the extra packages individually.

**By far the easiest approach is to install the Anaconda bundle.** This is a free (community) bundle that installs Python and many extra libraries in a single step. Installation is more or less the same on Windows, Linux, and OS X.

For each platform, follow *either* **Step1-A** or **Step 1-B**, but not both.

### Student files

The student files contain examples, data, answers to labs, and setup data. They will be provided to you separately.

### IDE/Editor

We recommend **PyCharm** as a Python IDE (Integrated Development Environment) and it is part of the installation specifications below. However, some programmers already have a favorite IDE or editor. We do not *require* students to use **PyCharm**. If students are already using Spyder, Visual Studio Code, Eclipse, Notebook\++, emacs or other tool, that will not cause a problem.

# Installing Python on Windows

### (Win) Step 1-A: Installing Python from Anaconda

1. Download the latest Anaconda installer from http[s://ww](http://www.anaconda.com/download/)w.an[aconda.com/download/.](http://www.anaconda.com/download/) Install, using default responses as needed.

**IMPORTANT** Download and install Python 3, not Python 2.

### (Win) Step 1-B: Installing Python from python.org

1. Download the latest Python 3 installer from <http://www.python.org/download/> . Be sure to download the 64-bit Windows installer.
2. Once downloaded, double-click the .exefile to start installing.

Choose “Install Python 3.*x* for all users”, and select the “Add python .exe to Path” option in the installer.

**NOTE**

If the installation seems to be hanging, check to see if there’s a Windows dialog asking for permission to proceed.

Setup continued on next page.

### (Win) Step 2: Installing the student (lab) files

The lab file archives contain setup, example, data, and answer files for use in the labs. The file name is **py3master\_1.0.zip**

The zip file should be extracted to the user’s desktop. It will create a folder named **py3master\_1.0**. When extracting, be sure the target folder is

C:\users\USERNAME\desktop

NOT

C:\users\USERNAME\desktop\py3master\_1.0

The extractor defaults to the second form, which adds a confusing extra **py3master\_1.0** folder.

### (Win) Step 3: Installing PyCharm Community Edition

Install the latest version of PyCharm Community Edition from

<http://www.jetbrains.com/pycharm/download>

**NOTE** Do not install the Professional Edition!

# Installing on OS X (Mac)

### (Mac) Step 1-A: Installing the Anaconda Bundle

1. Download the latest Anaconda installer from http[s://ww](http://www.anaconda.com/download/)w.an[aconda.com/download/.](http://www.anaconda.com/download/) Install, using default responses as needed.

*Install the Python 3 version, not the Python 2 version.*

### (Mac) Step 1-B: Installing Python from python.org

#### The Python language

Install Python for OS X from [http://www.python.org/download/.](http://www.python.org/download/) Choose the latest version.

### (Mac) Step 2: Installing the student (lab) files

The file name is **py3master\_1.0.tar.gz**

Download or copy **py3master\_1.0.tar.gz** to the user’s desktop. Extract to the user’s desktop or home folder. It will create a directory named **py3master**. Sample tar extraction command (execute as the user, not as root):

cd

tar xzvf py3master\_1.0.tar.gz

### (Mac) Step 3: Installing PyCharm Community Edition

Install the latest version of PyCharm Community Edition for Mac from

<http://www.jetbrains.com/pycharm/download>

**NOTE** Do not install the Professional Edition!

# Installing on Linux

### (Linux) Step 1-A: Installing the Anaconda Bundle

1. Download the latest Anaconda installer from https://[www.anaconda.com/download.](http://www.anaconda.com/download) Use all installation defaults.
2. Once the Anaconda package has been installed, open a new terminal window (shell prompt).

### (Linux) Step 1-B: Installing Python

#### The Python language

Python may already be installed. If not, install Python 3.4 or later from <http://www.python.org/> download/.

### (Linux) Step 2: Installing the student (lab) files

The file name is **py3master\_1.0.tar.gz**

Download or copy **py3master\_1.0.tar.gz** to the user’s desktop. Extract to the user’s desktop or home folder. It will create a directory named **py3master**. Sample tar extraction command (execute as the user, not as root):

cd

tar xzvf py3master\_1.0.tar.gz

### (Linux) Step 3: Installing PyCharm Community Edition

Install the latest version of PyCharm Community Edition for Linux from

<http://www.jetbrains.com/pycharm/download>

**NOTE** Do not install the Professional Edition!