

# WOMEN4IT

## 2020



### TRAINING ROADMAP

Data Analyst

About This Training Path

## Total Hours

200

## Training Objectives

This training path will introduce you to data management within the business world: how the data is collected, how it is treated, how and where the data is stored and finally how you can obtain valuable information for companies from that data. Practice activities are designed to provide you with the opportunity to gain the skills and knowledge necessary to perform data analysis in a real world environment from the development of applications for the company to building useful reports that support decision making.

### Upon successful completion of the training you will be able to:

- Report and develop dashboards.
- Perform analysis using OLAP techniques and other data mining tools.
- Perform BI and BA tasks with packaged solutions, that is, packaged products that perform the analysis processes.

## Success Criteria

You are assessed continuously throughout the training, earning badges for every module you successfully complete. You must achieve all badges to successfully complete the training. A minimum attendance rate of 75% is required.

## Accreditation

You may qualify, in full or in part, for credits towards future training courses or certification by an awarding body. Your mentor will explain these options to you before you begin.

## Your Training Roadmap

Your trainer may conduct a pre-assessment exercise with you to determine your knowledge of the subject and your comfort level with technology. This may be in the form of a short

online test, a paper survey or informal interview, either 1 to 1 or in a group with your fellow learners. A digital skills introductory course may be recommended for you to help you progress through the training roadmap.

## UNIT 1

### Fundamentals

#### Learning Objectives

- Acquire the necessary knowledge to understand how Information Technology is used in the business world.
- Be familiar with the most common architectures, the functions and the reason for each one.
- Be familiar with the tasks that a worker who performs their duties in each of the different positions that make up the usual universe of a computerized company will be detailed.
- Be able to contextualize the rest of the training and visualize yourself in a future job by performing some of the tasks for which you will be trained at the end of the training.

## UNIT 2

### Data Bases

#### Learning Objectives

- Recognise the reality of daily work in a company, from the point of view of the developer of computer applications, but also know the entire universe that makes up the IT infrastructure in a Large Company.
- Understand the different operating systems that will be found in their day to day work, with special emphasis on Linux / Unix which is one of the most used operating systems in the company.
- Be introduced to data modeling techniques and application design using graphical UML modeling tools.

- Know basic coding notions in the hands of a programming language of great simplicity, progression and future such as Python.
- Develop a complete application, storing the data in a database that they will have created.
- Consult the data generated through the most universal data access language, SQL - present in the vast majority of SMEs and Large Companies.
- Know the way in which the huge amount of data that a company manages is generated, as well as to understand the operation of the usual applications of the companies, that is: data collection, management of these data and subsequent storage in the databases of the Company.

## UNIT 3

### Data Analysis

#### Learning Objectives

- Collect data from applications and mold them until you can obtain information from these data and basic conclusions for decision-making in companies.
- Understand how data is organized in large databases for analysis (Data Warehouses) of large companies.
- Analyse the data using some of the most common techniques.
- Use common analysis tools found in companies to implement basic steps to extract valuable information.