Updated 12/13/2023

Sign up

Python beginner training

3 days (21 hours)

Presentation

Our Python for beginners course will give you a thorough understanding of the Python programming language. You'll learn all the skills you need to design your own infrastructures.

Our Python for beginners course is designed for developers wishing to learn the basics of the Python language. Whether you're a beginner or an experienced coder, learning Python is an excellent way to upgrade your skills and master one of the most powerful programming languages on the market.

Our training is punctuated by practical workshops, enabling you to familiarize yourself with the concepts covered in the course and to apply them in your day-to-day tasks and become fully operational.

Objectives

- Understanding fundamental Python concepts
- Build a simple python architecture

Target audience

- Beginner python developers

Prerequisites

- Basic knowledge of development languages is a plus but not essential

Our Python training program for beginners

Introduction to Python

- What is **Python?**
- **Install Anaconda**
- Introduction to syntax
- Python classes
- Objects

Python syntax

- Statements
- Comments
- Data types
- Functions
- Variables and assignments

Control flow

- "If" statement
- "Else" statement
- Loops
- "Break" and "continue
- "Pass

Functions

- Define functions
- Default values
- Arguments
- Docstrings
- Scope of variables

I/O files

- Opening files
- Reading files
- Writing
- "With" statement
- Exceptions

Error management

- Python error
- Try/except

- Specific exceptions
- else" and "finally" clauses
- Exception creation

Modules and libraries

- Python modules
- Import modules
- Import specific objects
- Standard Python library
- Third-party bookshops

Object-Oriented Programming (OOP)

- Classes and objects
- Methods
- Heritage
- Encapsulation
- Polymorphism

Debugging

- **Print statement**
- Assert
- Logging
- Test
- Python debuggers

Companies concerned

This training course is aimed at both individuals and companies, large or small, wishing to train their teams in a new advanced computer technology, or to acquire specific business knowledge or modern methods.

Positioning on entry to training

Positioning at the start of training complies with Qualiopi quality criteria. As soon as registration is finalized, the learner receives a self-assessment questionnaire which enables us to assess his or her estimated level of proficiency in different types of technology, as well as his or her expectations and personal objectives for the training to come, within the limits imposed by the selected format. This questionnaire also enables us to anticipate any connection or security difficulties within the company (intra-company or virtual classroom) which could be problematic for the follow-up and smooth running of the training session.

Teaching methods

Practical training: 60% Practical, 40% Theory. Training material distributed in

to all participants.

Organization

The course alternates theoretical input from the trainer, supported by examples, with brainstorming sessions and group work.

Validation

At the end of the session, a multiple-choice questionnaire verifies the correct acquisition of skills.

Sanction

A certificate will be issued to each trainee who completes the course.