

Python Programming 2

Duración: 3 Días **Código del Curso: PYP2** **Método de Impartición: Curso Remoto (Virtual)**

Temario:

Python Programming 2 Course Overview

English - Please note this course is only available in English.

Español - Por favor, tenga en cuenta que esta formación solo está disponible en inglés.

The Python Programming 2 course comprises sessions dealing with advanced object orientation, iterators and generators, comprehensions, decorators,

Curso Remoto (Abierto)

Nuestra solución de formación remota o virtual, combina tecnologías de alta calidad y la experiencia de nuestros formadores, contenidos, ejercicios e interacción entre compañeros que estén atendiendo la formación, para garantizar una sesión formativa superior, independiente de la ubicación de los alumnos.

Dirigido a:

Who will the Course Benefit?

The Python Programming 2 course is designed for existing Python developers who have a good grounding in the basics and want to exploit some of the advanced features of the language.

For the delegate for whom Python is their first programming language, we recommend taking the Python Programming 1 course first, then taking some time to practice the skills gained, before returning to take the Python Programming 2 course.

Objetivos:

■ Course Objectives

■ This course aims to provide the delegate with the knowledge to be able to interpret, write, and troubleshoot complex Python applications exploiting inheritance and polymorphism, mixins, composition and aggregation, iterators, generators, decorators, comprehension, concurrency, functional programming, and RESTful web services.

Prerequisitos:

■ Delegates should be able to build Python applications that exploit all fundamental elements of the language including variables and expressions, conditions and loops, functions, objects, and lists. This knowledge can be gained by attendance on the pre-requisite Python Programming 1 course.

Contenido:

Python Programming 2 Training Course Course Contents - DAY 1

Course Introduction

- Administration and Course Materials
- Course Structure and Agenda
- Delegate and Trainer Introductions

Session 1: ADVANCED OBJECT ORIENTATION

- The self Keyword
- Constructors and Destructors
- Encapsulation
- Inheritance
- Introspection with
 __dict__, __name__, __module__, __bases__
- The hasattr(obj,attr),dir(obj),help(obj)
 functions
- Polymorphism
- Abstract Classes
- Multiple Inheritance and Mixins
- Composition and Aggregation
- Static Members

Session 2: ITERATORS ; GENERATORS

- Iterables
- Iterators
- Custom Iterators
- Generators
- Yield vs. Return

Session 3: COMPREHENSIONS

- List Comprehension
- Set Comprehension
- The zip Function
- Dictionary Comprehension Python
 Python Programming 2 Training Course Course
 Contents - DAY 2

Session 4: DECORATORS

- Decorators
- Decorator Functions
- Decorator Annotations
- Decorator Use Cases
- Labs

Session 5: FUNCTIONAL PROGRAMMING

- Functional Programming
- Lambdas
- Immutability
- Mapping
- Filtering
- Reducing

Session 6: MULTITHREADING

- Threads
 - Multithreading
 - Thread Construction
 - Thread Execution
 - Thread Sleep
 - Joins
 - Data Sharing
 - Synchronisation
 - Multithreading vs. Multiprocessing
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Course Contents - DAY 3

Session 7: WEB SERVICES

- RESTful Web Services
- JSON Data
- CRUD and HTTP
- RESTful Clients
- RESTful APIs

Session 8: UNIT TESTING

- Unit Testing Terminology
- Test Classes
- Test Fixtures
- Test Cases
- Assertions
- Test Runners

Más información:

Para más información o para reservar tu plaza llámanos al (34) 91 425 06 60

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