

Python Fundamentals Short Course

40 · R14,995

Learn Python from the ground up — the language behind data science, AI, web development and automation. This course takes you from zero to a solid Python foundation, with hands-...

40

Hours of Training

R14,995

Course Fee

5 Days

Full-Time Option

JHB · CPT

+ Online Nationwide

COURSE CURRICULUM

What You'll Learn

Python Basics

Variables, data types (str, int, float, bool, list, dict, tuple, set), operators and expressions.

Functions

Defining functions, parameters, default values, *args/**kwargs, return values and scope.

File I/O & Exception Handling

Read and write files, handle exceptions with try/except and work with JSON.

Pygame — Game Development

Build a simple 2D game: game loop, sprites, collision detection and sound.

Django Basics — Web Development

Set up a Django project, create views, templates and a simple URL-based app.

Control Flow

if/elif/else, for and while loops, break, continue, and writing clean conditional logic.

Object-Oriented Programming

Classes, objects, __init__, inheritance, encapsulation and polymorphism.

Modules & Packages

Import built-in and third-party modules, create your own packages and use pip.

Matplotlib — Data Visualisation

Create line charts, bar charts, histograms and scatter plots from real data.

Mini Project

Apply everything you've learned in a capstone project of your choice.

