



*Training Course:
Fundamental Development: A Comprehensive
Training Program*

19 - 23 January 2025

Cairo (Egypt)

Holiday Inn & Suites Cairo Maadi, an IHG Hotel

Training Course: Fundamental Development: A Comprehensive Training Program

Training Course code: SC235396 From: 19 - 23 January 2025 Venue: Cairo (Egypt) - Holiday Inn & Suites Cairo Maadi, an IHG Hotel Training Course Fees: 3575 € Euro

Introduction

This comprehensive training program lays the groundwork for understanding fundamental development principles. Whether you're a complete beginner or looking to solidify your foundational knowledge, this program equips you with the essential tools and concepts for successful development endeavors.

Target Audience

This program is designed for individuals with little to no prior development experience. It caters to those interested in:

- Web development
- Software development
- Mobile application development
- Anyone seeking a strong base in programming fundamentals

Objectives

By the end of this program, you will be able to:

- Explain core development concepts like variables, data types, operators, and control flow.
- Write basic code snippets using a chosen programming language e.g., Python, Java.
- Identify and troubleshoot common programming errors.
- Apply fundamental problem-solving techniques to development challenges.
- Effectively utilize basic development tools and libraries.

Outline

Day 1:

Introduction to Development

- What is development? Different development fields web, software, mobile
- The development lifecycle planning, designing, coding, testing, deployment
- Introduction to programming languages compilers, interpreters
- Interactive session: Exploring a development environment e.g., IDLE, PyCharm

- Hands-on activity: Writing your first code simple print statements, basic calculations

Day 2:

Building Blocks of Development

- Variables and data types numbers, strings, booleans
- Operators arithmetic, comparison, logical
- User input and formatted output
- Coding challenge: Utilizing variables and operators to solve a small problem e.g., calculating area, temperature conversion
- Introduction to debugging: Identifying and fixing errors in code

Day 3:

Control Flow and Conditional Statements

- Conditional statements if-else, elif
- Loops for loops, while loops
- Applying control flow to decision-making and repetitive tasks
- Group activity: Using control flow to design a simple program e.g., guessing game, quiz
- Debugging exercises: Fixing common errors related to control flow

Day 4:

Functions and Libraries

- Functions - modularity, reusability, parameters, return values
- Introduction to libraries - pre-written code for common functionalities
- Hands-on lab: Building functions to solve specific tasks within a program
- Exploring built-in libraries and their functionalities e.g., math library

Day 5:

Putting It All Together

- Program design principles readability, maintainability

- Testing and debugging strategies
- Introduction to version control e.g., Git
- Project work: Participants use acquired skills to develop a mini-project e.g., simple calculator, basic game
- Peer review and code presentation

Registration form on the Training Course: Fundamental Development: A Comprehensive Training Program

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