



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

27 April - 1 May 2025

Cairo (Egypt)

Holiday Inn & Suites Cairo Maadi, an IHG Hotel

Training Course: Fundamental Development: A Comprehensive Training Program

Training Course code: SC235396 From: 27 April - 1 May 2025 Venue: Cairo (Egypt) - Holiday Inn & Suites Cairo Maadi, an IHG Hotel Training Course Fees: 3875 € 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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