



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

*22 - 26 June 2025  
Istanbul (Turkey)  
DoubleTree by Hilton Istanbul Esentepe*

# Training Course: Fundamental Development: A Comprehensive Training Program

Training Course code: SC235396 From: 22 - 26 June 2025 Venue: Istanbul (Turkey) - DoubleTree by Hilton Istanbul Esentepe Training Course Fees: 5775 € 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

Training Course code: SC235396 From: 22 - 26 June 2025 Venue: Istanbul (Turkey) - DoubleTree by Hilton Istanbul Esentepe Training Course Fees: 5775 € Euro

Complete & Mail or fax to Global Horizon Training Center (GHTC) at the address given below

### Delegate Information

Full Name (Mr / Ms / Dr / Eng): .....  
 Position: .....  
 Telephone / Mobile: .....  
 Personal E-Mail: .....  
 Official E-Mail: .....

### Company Information

Company Name: .....  
 Address: .....  
 City / Country: .....

### Person Responsible for Training and Development

Full Name (Mr / Ms / Dr / Eng): .....  
 Position: .....  
 Telephone / Mobile: .....  
 Personal E-Mail: .....  
 Official E-Mail: .....

### Payment Method

- Please find enclosed a cheque made payable to Global Horizon
- Please invoice me
- Please invoice my company

### Easy Ways To Register

Telephone:  
+201095004484 to  
provisionally reserve your  
place.

Fax your completed  
registration  
form to: +20233379764

E-mail to us :  
info@gh4t.com  
or training@gh4t.com

Complete & return the  
booking form with cheque  
to: Global Horizon  
3 Oudai street, Aldouki,  
Giza, Giza Governorate,  
Egypt.