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

## 17 - 21 February 2025
### Kuala Lumpur (Malaysia)
### Royale Chulan Kuala Lumpur

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

Training Course code:  SC235396  From:  17 - 21 February 2025  Venue:  Kuala Lumpur (Malaysia) - Royale Chulan Kuala Lumpur Training Course Fees:  6000  ⬛ 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:
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Complete & Mail or fax to Global Horizon Training Center (GHTC) at the address given below

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### Company Information

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### Person Responsible for Training and Development

Full Name (Mr / Ms / Dr / Eng): ...................................................................................................................
Position: ........................................................................................................................................................
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### Payment Method

☐ Please find enclosed a cheque made payable to Global Horizon

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