



REAL WORLD
TECHNOLOGY TRAINING & SOLUTIONS
"Training You Can Really Use"

40361: Software Development Fundamentals

Duration: 3 Days

Method: Instructor-Led Training (ILT) | Live Online Training

Course Description

This course is designed to help business professionals, who work in technical environments, learn the fundamentals, and gain a better understanding of software development and application life cycle management. In this course, participants will learn how desktop and web applications are developed and the programming logic behind them. This course is also designed to help them prepare for the certification exam.

Target Audience

This course is intended for persons who need to communicate more effectively with software developers and the development community such as:

- Project Managers
- Business Analysts
- Software Marketing Professionals
- Business Stakeholders.

Prerequisites

To attend this course, candidates must have general office computer skills.

Course Objectives

Upon successful completion of this course, attendees will be able to:

- Understand the core fundamentals of software and application development.
- Understand core programming, decision structures, error-handling, and object-oriented programming.
- Program for the desktop vs. program for web applications.
- Integrate applications with databases and data stores for real-time queries.



Microsoft Partner

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Course Topics

Module 1: Introduction to Programming

- Basics of Computer Programming
- Decision Structures
- Repetition Structures
- Exception Handling
- Computer Storage and Data Types
- Error Handling

Module 2: Introduction to Object-Oriented Programming

- Objects
- Values and References
- Encapsulation
- Inheritance
- Polymorphism
- Interfaces
- Fundamentals of Classes
- Computer Storage and Data Types

Module 3: Understanding General Software Development

- Application Lifecycle Management
- Testing
- Data Structures
- Sorting Algorithms

Module 4: Understanding Web Applications

- Web Page Development
- ASP.NET Application Development
- IIS Web Hosting
- Web Services Development

Module 5: Understanding Desktop Applications

- Web Windows Forms Applications
- Console-Based Applications
- Windows Services

Module 6: Understanding Databases

- Relational Database Management Systems
- Database Query Methods
- Database Connection Methods

LABS INCLUDED

