Faysal Aziz

Visual Basic

10 days

FA-0455 · 10 days

Software Development · Data & Analytics · Automation, RPA & Power Platform

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Introduction

Welcome to our Visual Basic training course, specifically designed for professionals in the financial industry. With over 20 years of industry experience, our expert trainers have tailored this course to be commercially applicable and highly relevant, ensuring that you receive practical knowledge instead of just theoretical concepts. By the end of this course, you will be proficient in using Visual Basic to create efficient financial applications that address real-world business challenges.

This comprehensive 10-day course is designed to provide a strong foundation in Visual Basic programming for financial professionals. By the end of this course, participants will have the skills and knowledge necessary to create efficient and effective financial applications, analyze and visualize data, automate routine tasks, and integrate their applications with databases and third-party libraries. With a focus on commercial applicability and practical, hands-on learning, this course will equip participants with valuable tools and techniques to enhance their careers in the financial industry.

Learning outcomes

Upon completion of this course, participants will be able to:

- Understand the fundamentals of Visual Basic programming language and its applications in the financial sector.
- Design, develop, and debug effective financial applications using Visual Basic.
- Apply object-oriented programming concepts to build scalable and maintainable solutions.
- Utilize Visual Basic tools and libraries to analyze and manipulate financial data.
- Create interactive user interfaces and data visualization tools for financial applications.
- Automate routine tasks, improving efficiency and reducing human error.

Prerequisites

Before attending this course, participants should have:

- A basic understanding of programming concepts (variables, loops, conditional statements, etc.)
- Familiarity with Microsoft Excel, as it will be used for data manipulation and analysis during the course.
- Basic knowledge of financial concepts and terminologies.

Training outline

1. Day 1: Introduction to Visual Basic and Fundamentals

1.1. Overview of Visual Basic and its applications in the financial industry

1.2. Understanding the Visual Basic environment

1.3. Fundamentals of Visual Basic programming (variables, data types, operators, and expressions)

1.4. Conditional statements and loops in Visual Basic

2. Day 2: Procedures, Functions, and Error Handling

2.1. Creating and using procedures

2.2. Functions and their applications in finance

2.3. Error handling and debugging techniques

2.4. Practical exercises: building simple financial functions

3. Day 3: Object-Oriented Programming and Classes

3.1. Introduction to object-oriented programming

3.2. Creating and using classes in Visual Basic

3.3. Properties, methods, and events

3.4. Inheritance and polymorphism

4. Day 4: Working with Financial Data

4.1. Data structures and collections

4.2. Importing and exporting financial data

4.3. Data manipulation techniques using Excel and Visual Basic

4.4. Practical exercises: analyzing financial data

5. Day 5: Advanced Data Analysis and Visualization

5.1. Advanced data analysis techniques

5.2. Charting and data visualization tools

5.3. Creating custom financial dashboards

5.4. Practical exercises: building a financial dashboard

6. Day 6: User Interface Design and Development

6.1. Understanding user interface design principles

6.2. Building interactive user interfaces for financial applications

6.3. Form controls and event-driven programming

6.4. Practical exercises: designing a user-friendly financial application

7. Day 7: Database Integration

7.1. Introduction to databases and SQL

7.2. Connecting to databases using Visual Basic

7.3. Reading, writing, and updating financial data in databases

7.4. Practical exercises: integrating a financial application with a database

8. Day 8: Financial Libraries and APIs

8.1. Overview of financial libraries and APIs

8.2. Integrating financial libraries and APIs into Visual Basic applications

8.3. Practical exercises: building a financial application using third-party libraries

9. Day 9: Automation and Task Scheduling

9.1. Introduction to automation and task scheduling

9.2. Automating repetitive tasks in financial applications

9.3. Scheduling tasks and generating reports

9.4. Practical exercises: automating a financial report generation process

10. Day 10: Final Project and Course Wrap-up

10.1. Applying learned concepts to a real-world financial project

10.2. Collaborative project development: design, implementation, and presentation

10.3. Best practices for maintaining and improving Visual Basic financial applications

10.4. Course summary and key takeaways

10.5. Q&A and closing remarks

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