Mastering Microsoft Visual Basic 6 Development

5 Days

Introduction

This course teaches Microsoft Visual Basic programmers how to create database applications using components.

Microsoft Certified Professional Exams

Exam: 70-176, Designing and Implementing Desktop Applications with Microsoft Visual Basic 6.0

Prerequisites

This course assumes the student has a good working knowledge of the Microsoft Visual Basic programming system. Potential students should be able to accomplish the following tasks before taking this training:

- Create an application with multiple forms and add functionality for multiple events to the controls on those forms
- Write a Function procedure and a Sub procedure, and invoke them from Event procedures
- Declare variables and use conditional statements
- Describe the purpose and use of each of the controls in the Toolbox
- Add a simple menu interface to an application
- Retrieve and validate information from a user
- Add a custom control to a project
- Describe the relationship between properties, methods and objects
- Add run-time error handling to an application
- Run the application and use debug mode within the Visual Basic environment
- Create and EXE file from the project files
- Design and use a relational database
- Use SQL syntax to create database queries

Objectives

At the end of this course participants will be able to:

- Write a Microsoft Visual Basic-based application that accesses data from a database
- Write a Visual Basic-based application that uses component object model (COM) components
- Create an ActiveX control
- Create a COM component
- List the opportunities that Visual Basic developers have to incorporate Internet technologies into their applications
Outline

Chapter 1: Visual Basic Essentials

- Understanding Visual Basic development
- Creating an application
- Debugging and error handling
- Compiling an EXE file
- Overview of the State University Bookstore application

Chapter 2: Using Visual Data Access Tools

- Universal data access
- Connecting to a data source
- Getting data from a connection
- Organizing data
- Presenting data

Chapter 3: Using Class Modules

- Designing an application
- Creating class modules
- Adding properties, methods, and events
- Using a class module
- Creating data-bound class modules

Chapter 4: Building ActiveX Controls

- Creating an ActiveX control
- Exposing properties, methods, and events
- Testing a control
- Creating property pages
- Creating a data-bound control
- Creating a data source control

Chapter 5: Using ActiveX Data Objects

- Overview of ActiveX Data Objects (ADO)
- Handling data access errors
- Connecting to a data source
- Retrieving data from a data source
- Sorting and searching data
- Updating data
- Using disconnected data
- Creating dynamic record sets
- Understanding performance considerations

Chapter 6: Advanced Data Access Issues

- Overview of Microsoft SQL Server security
- Using cursors
• Enforcing data integrity
• Executing statements on a database

Chapter 7: Using COM Components

• Introduction to COM components
• Creating a client application
• Using Microsoft Internet Explorer

Chapter 8: Building COM Components

• Introduction to COM components
• Creating COM components
• Creating an object model
• Adding error handling

Chapter 9: Optimizing and Deploying an Application

• Optimizing an application
• Deploying an application
• Deploying an ActiveX control

Chapter 10: Building Internet

• Using the Web Browser control
• Creating Active Documents
• Creating dynamic hypertext markup language (DHTML) applications
• Creating Microsoft Internet Information Server applications