Seminar Abstract

Visual Studio .NET

COURSE OVERVIEW:

This 1-day hands-on workshop introduces software developers to Microsoft's Visual Studio .NET Interactive Development Environment (IDE).

GOALS:

Provided students meet the prerequisites, at the end of the course, they should:

- Be able to navigate their way around most of the menu options.

- Be able to modify and create toolbars.

- Understand docking of windows.

- Have considerable mastery of the text editor with respect to searching, copying, and replacing text, both in memory and in one or more disk files, as well as programming language-specific support.

- Understand solutions and projects, and how to create them.

- Know how to use the source code browser.

- Know how to use the debugger by setting breakpoints, tracing functions calls, examining and changing variables, among other things.

WHO SHOULD ATTEND:

Software developers and technical managers who need to implement or manage projects using Visual Studio.NET.

PREREQUISITES:

Students are expected to have basic skills using a mouse or keyboard to manipulate windows, toolbars, and the like in a Microsoft Windows 95, 98, ME, NT, 2000, or XP environment. Some parts of the course assume familiarity with text editing, compiling, linking, and debugging, and a modern programming language such as C++, C#, Java, or Visual Basic.

Although the primary source code examples are written in C#, the principles involved are the same for any language running under Visual Studio .NET. Equivalent examples are also provided for C++, Java, and Visual Basic.

MATERIALS:

Each student will receive the following materials:

- *Visual Studio.NET*. This typeset manuscript contains the narrative and exercises for the course as well as lots of screen dumps to illustrate points.

- An electronic copy of the course manuscript and demonstration source files for use during the workshop.

DETAILED TOPICS:

1. Introduction

2. Getting Started
   - Menu Basics
   - Toolbar Basics
   - ToolTips
   - Full Screen Mode
   - Toolbars Revisited
   - Menus Revisited
   - Managing Windows
   - Getting Help
   - Microsoft Office

3. Editing Text
   - Document Windows Control
   - Line Numbers
   - Cutting, Copying, and Pasting Text
   - Bookmarks
   - Outlining and Hiding Text
   - Searching and Replacing Text
   - Miscellaneous Features
   - Macros

4. Editing Source Code
   - General
   - Task Lists
   - Getting Language-Specific Help

5. Solutions and Projects
   - An Introduction
   - Creating New Projects
   - Configurations
   - Building and Using a DLL
   - Building a Multi-Language Program

6. Browsing

7. Debugging
   - The Basics
   - Tracing Method Calls
   - Breakpoints
   - Objects
   - Inspecting Memory
   - The Command Window
   - Debugging Macros
   - Debugging A Multi-Language Program
   - Exception Handling
   - Multi-Threaded Programs