Introduction to Microsoft .NET 2003

Meet the expert: Martin Schaeferle has taught IT professionals nationwide to develop applications using Visual Basic, Microsoft SQL Server, ASP, and XML. He has been a featured speaker at Microsoft Tech-Ed and the Microsoft NCD Channel Summit, and he specializes in developing Visual Basic database applications, COM-based components, and ASP-based Web sites. In addition to writing and presenting technical training content, Martin is also LearnNowOnline's vice president of technology.

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Course description: Microsoft .NET initiative is receiving a lot of attention and Visual Studio .NET is growing rapidly in popularity. What does all this mean to the Windows and Web developer? This course will provide you with a clear understanding of .NET, its origin, architecture, applicability, and impact on the development world. It will look at the .NET Framework, the .NET languages, the .NET standards, and even a look at the new features in Visual Studio .NET 2003.

Course outline:

History of Win32 Development
- Introduction
- Brief History
- Making Programming Easier
- Problems with Development
- A Distributed Application
- How about COM?
- .NET: The Next Generation
- Components of a .NET App
- Smart Clients
- XML Web Services
- .NET Servers
- .NET Development Tools
- Migration Issues
- Migration Strategies
- Summary

.NET Framework Libraries
- Introduction
- .NET Overload
- .NET Framework Class Library
- Objects
- Platform Invoke
- COM Interop
- .NET Architecture
- CLI
- CLS
- CLR
- CLR Architecture
- .NET Languages
- MSIL and ILDASM.exe
- Summary

.NET Languages
- Introduction
- Framework Sample
- .NET Languages
- How Do You Choose?
- Deployment
- XCopy Depolyment
- .NET Setup Projects
- Configuration Tools
- Summary

Web Standards
- Introduction
- Standards
- Web Standards
- XML and Related Specs
- XML Schemas
- XSLT
- XPath
- XQuery and XQueryX
- Examples using XML/XSD
- DOM
- More Web Standards
- Summary

Web Services Standards
- Introduction
- Standards
- Web Services Technologies
- Invoking with SOAP
- Describing with WSDL
- Discovering with UDDI
- Web Service Enhancements
- Language/Infrastructure
- Summary

Explore VS.NET
- Introduction
- .NET and Visual Studio .NET
- Quick Tour of the IDE
- Building a .NET Project
- What Was Created?
- VS.NET Interface
- Class View
- Properties Window
- Dynamic Help
- Toolbox
- Server Explorer
- Code Window
- Task List
- Object Browser
- Summary

Building .NET Apps
- Introduction
- Build Distributed .NET Apps
- Application Architectures
- Data Access Layer
- Data Access Layer Example
- Business Object Layer
- Business Object Example
- Web Interface with ASP.NET
- Client-Side vs Server-Side
- ASP.NET App Components
- Customer Web Example
- Confiuration Issues
- Windows Forms
- Customer WinForm Example
- Summary

Security and Deployment
- Introduction
- Security
- Role-Based Security
- Code Access Security
- .NET Security Policies
- .NET Security Tools
- IPv6
- EIF
- Deployment
- .NET Utilities
- Side-by-Side Execution
- Multiple Framework Versions
- Summary