

.NET Concepts for Technical Managers

Description	<p>A lecture, discussion, demonstration and question-and-answer session on Microsoft's .NET software, for IT managers and supervisors:</p> <ul style="list-style-type: none">• brief overview of Object-Oriented principles, .NET concepts, and comparison to mainframe and other technologies• the process of going from business requirements to class design, coding, testing, deployment• demonstration of building Windows and Web applications and services with .NET 3.5
Length	1 day
Outline	<ul style="list-style-type: none">• Overview; Object Oriented terms and concepts, relationship to traditional mainframe terms and concepts; .NET history, including Visual Basic, C++, Active Server Pages, versions of .NET to date• .NET Capabilities; relation between the .NET Framework and Visual Studio; development of various application types, including Windows desktop, Web (ASP.NET), WCF Services, etc; database capabilities; LINQ (Language Integrated Query); the various .NET languages, including Visual Basic and C#; Ajax techniques in web applications; the MVC Framework; Visual Studio 2008 productivity features• The Design, Development and Deployment process; techniques for simple vs. complex applications; the purpose of designing multi-tier applications (presentation, business and data tiers); overview of class design, including properties, methods and events; when and how to use inheritance in class design; implementing classes with Class Libraries, Web Services, or WCF Services; deciding between Windows ("fat client") and Web ("thin client") interfaces; using Windows Presentation Foundation (WPF) to develop rich interfaces; testing issues; the process of deploying and maintaining .NET applications• Migrating existing applications to .NET; types of applications that can or should be migrated to .NET; automated tools available
Hardware, software	<p>A workstation for the instructor with Visual Studio.NET 2008 Professional edition or higher, and projector; optionally, sufficient workstations for those attendees who want to run sample applications.</p>