

.NET Training: New Technologies for Professional Developers (NFNTech, 4 jours)

Description

The course New Technologies for Professional Developers (.NET Training) provides a good general overview of modern .NET APIs for the full .NET Framework or .NET Core. The training begins with a review of Object Oriented programming with C# .NET including inheritance, polymorphism & interfaces. The course explores the development of a Data Access Layer using the ADO .NET Entity Framework & LINQ for SQL. This is followed by an exploration of the new GUI APIs including Windows Presentation Foundation (WPF) with MVVM & ASP .NET MVC. Service framework development is also studies using Windows Communication Foundation (WCF) for messaging applications & Workflow Foundation (WF) for workflow implementations. The course concludes with an exploration of ASP .NET AJAX for asynchronous web communications.

Tarifs

- Tarification: \$3,750/person
- Rabais de 10% lorsque vous inscrivez 3 personnes.

Plan de cours

Exploring the .NET Framework

.NET Namespaces and Assemblies

Overview of the new APIs

A New paradigm for .NET Programmers

Windows GUI: Overview of Windows Presentation Foundation (WPF)

Web Interfaces and MVC: ASP .NET

Microsoft ORM: Language Integrated Query for SQL (LINQ for SQL)

Implementing Workflows: Windows Workflow Foundation (WWF)

Remote Messaging: Windows Communication Foundation (WCF)

Exploring XML: Language Integrated Query for XML (LINQ for XML)

Exploring AJAX: ASP .NET AJAX

Advanced OO Programming : Preparing for MVC

Creating Classes

Using Interfaces

Working with Generics

Operator Overloading

Custom Type Conversions

Using the Microsoft Enterprise Library

LINQ Essentials

About Language Integrated Query (LINQ)

LINQ Basic Syntax

Filtering Objects with the Where Clause

Specifying Returned Objects with Select

Working with Advanced Functions

Accessing Data : LINQ for SQL

ADO .NET Overview

Creating a DB Independent Data Access Layer

Exploring System.Data.Linq

Creating a Data Model for LINQ

Introduction to LINQ for SQL

Advanced LINQ for SQL

LINQ for SQL and Inheritance

Common LINQ for SQL Examples

Building Windows Applications

A New Approach : Windows Presentation Foundation

Creating a WPF Form

Working with the Layout

Adding Basic Controls

Modifying Behavior Adding Event Handlers

Working with Menus and Toolbars

Working with Advanced Controls

Pulling the Application Together

Building ASP .NET Applications

The Need for MVC in ASP .NET Applications

Applying MVC to ASP .NET

MVC Architecture versus Traditional ASP .NET

Building the Interface

Adding Controls to the Form

Building the Actions

Implementing Page Flows

Dealing with Exceptions and Validation

Integrating Data Access

Pulling the Application Together

XML Essential Concepts

XML Terminology: Valid and Well-Formed

About Namespaces and Schemas

The Role of XML in Application Configuration

The Role of XML in Application Development

The Role of XML in Enterprise Application Integration

Accessing Data : LINQ for XML

The System.Xml Namespace

The System.Xml.Linq Namespace

Using the XDocument and XNamespace Classes

Introduction to LINQ for XML

Advanced LINQ for XML

Integrating LINQ for XML in your Applications

Windows Workflow Foundation

Introducing Windows Workflow Foundation

Windows Workflow Foundation Architecture and Components

Types of Workflows

Defining the Business Process

Defining Inputs and Outputs

Defining Transactions

Working with Events

Integrating a Workflow into your Application

Accessing Remote Objects

Introducing Windows Communication Foundation (WCF)

Creating a WCF Service

Creating a WCF Client

About Object Serialization and Marshalling

WCF Security and Data Considerations

Integrating WCF into an Application

Creating Web Services

XML Web Service Concepts and Terminology

Defining the Interface: Exploring WSDL and SOAP

Creating a Web Service

Creating a Web Service Client

Securing a Web Service

Ensuring Web Service Compatibility with Bindings

Web Services and Windows Applications

Web Services and Web Applications

Using ASP .NET AJAX

ASP .NET AJAX Overview

AJAX Technology and Considerations

Using the ScriptManager and UpdatePanel Controls

Invoking Asynchronous Methods

Integrating AJAX into your Applications

Deployment Considerations

About .NET Framework Versions and Capabilities

Private versus Public DLLs

Deploying Smart Clients

Other Deployment Considerations