SETC Training Corporate Logo

.NET Training: Converting VB Applications to VB .NET (VBNETMIG, 4 jours)

Description

The course Converting VB Applications to VB .NET (.NET Training) covers every aspect of the migration process from a previous version of VB to a .NET v4 application. We begin with an overview of the major functional differences between traditional VB applications and .NET v4 applications. Included in the discussion are all the basic code elements together with a comprehensive exploration of refactoring as an art and a science. The course presents fixes for the major code smells and discusses the essential concepts of class hierarchies and polymorphism. Having mastered the basic tools of migration, our attention shifts to the migration considerations associated with the use of .NET Entity Models, ASP .NET MVC and WCF. The course concludes with a discussion of the major differences in the areas of configuration and deployment.

Tarifs

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

Plan de cours

.NET Versioning and Capabilities

- Exploring the .NET Version History: from v1 to v4
- Version to Version Comparison: VB .NET Code Capabilities
- Version to Version Comparison: Database Access
- Version to Version Comparison: XML
- Version to Version Comparison: Web Services
- Version to Version Comparison: Web Programming
- Version to Version Comparison: Windows Programming
- Version to Version Comparison: Security
- Version to Version Comparison: Documentation
- Version to Version Comparison: Compilation and Deployment

An Object Oriented Programming Refresher

- Best Practices for Creating Solutions and Projects
- About Managing Namespaces and Assemblies
- Setting the Environment for Automatic Documentation
- Best Practices for Creating Classes
- Ensuring Class Cohesion
- About .NET Collection Classes
- Using Inheritance in a Meaningful Way
- Best Practices for Inheritance
- Using Polymorphism in a Meaningful Way
- Best Practices for Polymorphism
- The Nature and Use of Abstract Classes and Methods
- The Nature and Use of Interfaces
- The Nature and Use of Generics

The Art of Refactoring

- What is Refactoring?
- An Introduction to Test Drive Development
- The Refactoring Process from A to Z
- Introducing Code Smells

Common Code Smells and How to Fix Them
Identifying and Resolving Duplicate Code
Identifying and Resolving Large Classes and Functions
Identifying and Resolving Primitive Obsession
Identifying and Resolving Long Parameter Lists
Identifying and Resolving Divergent Change
Putting it all Together
Migrating the Procedural Code
Migrating Variable Declarations
Migrating Variable Assignment: Making use of += and other similar expressions
Migrating Function and Procedure Declarations
A Note on Function Parameters and Return Values
About Anonymous and Optional Parameters
Migrating Arrays and Collections
Migrating Boolean Expressions: AndAlso and OrElse
Migrating Conditional Expressions
Migrating Repeating Statements
Other Migration Considerations
Migrating Classes
Migrating Class Declarations and Attributes
Migrating Class Members
Migrating Class Constructors and Finalizers
Migrating Class Methods
Refactoring Notes: Creating, Deleting and Exploding Existing Classes
Migrating Class Hierarchies
A Look at Inheritance: Migrating Sub-Classes
About Creating a New Class Hierarchy: When to Choose this Path
Adding Base Class Methods: When is it Justified?
A Look at Interfaces: Migrating Interfaces and their Implementations
About Creating a New Interface: When to Choose this Path
Implementing a New Interface: How to do it.
Migrating Data Access
Overview of .NET v4 Data Access Technologies
Comparing .NET Entity Models to Common ORM Implementations
Implementing a .NET Entity Model
Using the .NET Entity Model in your Code
Migrating Data Access Code to an Entity Model Implementation
Best Practices and Common Missteps
Migrating Web Applications
Overview of .NET v4 Web Application Technologies
About ASP .NET MVC: Technology and Concepts
Creating a Simple ASP .NET MVC 3 Based Web Application
Migrating ASP .NET Web Applications to ASP .NET MVC: An Overview
Migrating the Interface: HTML
Migrating the Logic: from Code Behind to ASP .NET MVC
Integrating .NET Entity Model Implementations
Best Practices and Common Missteps
Migrating Services
Overview of .NET v4 Web Service Technologies
About WCF: Technology and Concepts

Creating a Simple WCF Based Service
Migrating Web Services to WCF: An Overview
Migrating the Service Class and its Behaviours
About Channels and Behaviours
Migrating the Web Service Client: Calling the Web Service
Integrating .NET Entity Model Implementations
Best Practices and Common Missteps
Migrating the Configuration
Overview of Configuration Differences
Configuring Applications with web.config
Adding and Working with Configuration Parameters
Working with Encrypted Configuration Sets
Securing the Application
Other Migration Considerations
Preparing for Deployment
A Special Note about Deploying ASP .NET MVC Applications
Performing a Deployment
Verifying the Deployment