

# Core Spring.NET

## Overview

Spring.NET is the port of Spring to the Microsoft .NET framework. Spring.NET makes building enterprise .NET applications easier.

Providing components based on proven design patterns that can be integrated into all tiers of your application architecture, Spring helps increase development productivity and improve application quality and performance.

In this 4-day training you learn how to use the Spring.NET Framework to create well-designed, testable business applications in an agile manner.

## Training Objectives

At the end of the training, you should gain an understanding of Spring and associated technologies and be able to:

- Develop .NET applications using the Spring Framework
- Use Dependency Injection to set up and configure applications
- Test Spring Applications
- Use NHibernate and ADO.NET with Spring.NET to access relation databases
- Make use of Spring.NET's support for transactions
- Utilize AOP to add behavior to objects
- Develop web applications
- Use technologies such as WCF, NMS and MSMQ with Spring

## Target Audience

This training is designed for developers interested in developing applications with Spring.NET

## Prerequisites

- Experience with developing applications using .NET and C#

## Pricing and Scope

- Four (4) days of instructor-led, classroom training
- 50% lecture and 50% hands-on lab
- Individual enrollment available at convenient locations worldwide:  
<http://www.springsource.com/training/curriculum>
- Contact your VMware representative for pricing information
- Onsite training available for companies that want the benefits of instructor-led classes without travel
- Contact VMware Education to discuss facility requirements for onsite training at [education@vmware.com](mailto:education@vmware.com)

## Training Outline

### Day 1: Spring.NET Framework Foundations

- Introduction to Dependency Injection
- Test Driven Development with Spring.NET
- How Spring helps you write better, more cohesive code, with a discussion on relevant OO design patterns

### Day 2: Effective Middle-tier Architecture

- Spring AOP (Aspect-Oriented Programming)
- Best-practices for persistence with Spring.NET
- Persistence strategies (e.g., NHibernate, Spring ADO.NET)
- Transaction management with Spring
- Middle-tier unit and integration test strategies

### Day 3: Effective Web Architecture and Design

- Spring's ASP.NET framework
- Persist and re-constitute rich form backing objects without programming
- Externalizing page flow from ASP.NET pages.
- Rich bi-directional data binding to and from web tier's forms

### Day 4: Effective Enterprise Integration Architecture & Design

- Complex business validation rules in the web and application tiers
- How Spring.NET's support for enterprise integration technologies enables a real world application to scale into the enterprise domain
- Exposing and consuming Spring managed objects as remote endpoints
- Loosely coupled, web services using Spring.NET and WCF
- Asynchronous, message-driven Concerns using Spring.NET's support for NMS and MSMQ

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