

# .NET Training: ADO .NET, NHibernate & LINQ for SQL (NFDBP, 4 jours)

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## Description

The course ADO .NET, NHibernate & LINQ for SQL (.NET Training) provides participants with a wealth of knowledge in the area of .NET database development. The course begins with a look at the System.Data namespace and its many classes. You learn to use connection & command classes to execute SQL statements or to run stored procedures. The training covers the ADO .NET Entity Framework and LINQ for SQL. Other viable .NET ORM solution are also discussed including MEL & NHibernate.

## Tarifs

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

## Plan de cours

### ADO .NET Connected Data

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ADO .NET Overview

Connections

Connected Data: SQL Statements

Connected Data: Stored Procedures

Using Transactions

### ADO.NET: Disconnected Data

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Using the DataSet Class

Change Management

Constraints and Relations

Updating the Database

Data Binding

XML Integration

### LINQ for SQL

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Introducing LINQ for SQL

About ORM with LINQ

Creating the Context

LINQ Basic Syntax

LINQ Advanced Syntax

LINQ and Inheritance

### Creating a Data Access Layer

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Creating a Generic Connection

Creating a Generic Command

Creating a Generic DataAdapter

Creating a Generic CommandBuilder

Loading a DataSet

### Building the User Interface

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A Reminder about MVC

About Data Binding

Data Access in a Web Service

Data Access in a Windows Based Connected Client

Data Access in a Windows Based Disconnected Client

Data Access in a Web Application

Ensuring Flexible Application Configuration

Microsoft Enterprise Library (Mel)

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Using Microsoft Enterprise Library

Using Microsoft Application Blocks

Data Access Application Block

Exception Handling Block

Logging Application Block

Logging Exceptions

Validation Block

NHibernate Basics

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Overview

The Problem with Hand-Coded Sql

About ORM with NHibernate

NHibernate Namespaces

NHibernate Interfaces

The ISessionFactory

The Session Instances

Identity

NHibernate Application Configuration

Object Mapping

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Overview

The Domain Model

Mapping Basics

Mapping Objects

Dealing with Identity

Mapping Types

Mapping: Value Types and Entity Types

Mapping Class Hierarchies

Mapping Associations

Mapping Collections

Mapping and Polymorphism

Application Deployment

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Public versus Private DLLs

Deploying Web Applications

Deploying Windows Applications