

# ASP.NET 2.0/3.5 Web Development with VS 2008 L1

Hands-on course of 5 days - 35h

Ref.: AST - Price 2024: CHF2 970 (excl. taxes)

This course will teach you how to develop real-world Web applications using the new features and functionality included in the ASP.NET 2.0. The course explains how to use the Visual Studio built-in tools to access data by using ADO.NET and how to programmatically access data using ADO.NET. A module covers how to create and publish XML Web services by using Visual Studio .NET.

## THE PROGRAMME

last updated: 01/2018

### 1) Introduction to Internet and Intranet development

- Basic principle of a web server and html requests.
- Static and Dynamic web sites.
- Introduction to the .NET Framework. Benefits of the CLR execution model.
- Main components used in today's web applications: ASP.Net, ADO.Net, Web Services, Framework .NET.
- Keys to develop a Web application with ASP.NET.
- Using the Visual Studio .NET toolbox to add server controls to a Web Form.

*Hands-on work* : Using Visual Studio 2010/2008 in order to create a web site and an input form.

### 2) Concept of dynamic pages creation

- Principle and challenges.
- Managed ASP.NET : inline code and codebehind.
- Adding and using web server controls.
- ViewState persistence.
- Client persistence with the cookies collection. Server persistence with Session object and Application object.
- The new enhanced persistence approach.
- Fundamentals of a Web Form : Page Object.
- Life cycle of the Page Class: events management.
- Cross-pages PostBack mechanisms.
- Specific web files and folders in ASP.NET.

*Hands-on work* : Development of a Web Application involving cross-page postback through web forms.

### 3) ASP.NET HTML and Web controls

- Transforming HTML controls and expose clients and servers events.
- Exploring the namespace Web.UI.HtmlControls.
- How to use the HtmlGenericControl class.
- Integration with client script language like JavaScript.
- Exploring the Namespace Web.UI.ServerControls.
- Functionalities exposed from the basic server controls.
- How to use the client-side and server-side validation controls to screen data.
- User, Content and Rich Controls.

*Hands-on work* : Creation of an advanced user interface.

#### PARTICIPANTS

Developers willing to develop robust Web applications using the successful .NET technologies - ASP.NET and ADO.NET - under the Visual Studio IDE.

#### PREREQUISITES

Ability to create HTML pages including table and forms. Familiarity with C# or VB.NET language is an imperative prerequisite in order to follow the course.

#### TRAINER QUALIFICATIONS

The experts leading the training are specialists in the covered subjects. They have been approved by our instructional teams for both their professional knowledge and their teaching ability, for each course they teach. They have at least five to ten years of experience in their field and hold (or have held) decision-making positions in companies.

#### ASSESSMENT TERMS

The trainer evaluates each participant's academic progress throughout the training using multiple choice, scenarios, hands-on work and more. Participants also complete a placement test before and after the course to measure the skills they've developed.

#### TEACHING AIDS AND TECHNICAL RESOURCES

- The main teaching aids and instructional methods used in the training are audiovisual aids, documentation and course material, hands-on application exercises and corrected exercises for practical training courses, case studies and coverage of real cases for training seminars.
- At the end of each course or seminar, ORSYS provides participants with a course evaluation questionnaire that is analysed by our instructional teams.
- A check-in sheet for each half-day of attendance is provided at the end of the training, along with a course completion certificate if the trainee attended the entire session.

#### TERMS AND DEADLINES

Registration must be completed 24 hours before the start of the training.

#### ACCESSIBILITY FOR PEOPLE WITH DISABILITIES

Do you need special accessibility accommodations? Contact Mrs. Fosse, Disability Manager, at psh-accueil@ORSYS.fr to review your request and its feasibility.

#### 4) Data source controls and data binding with ADO.NET

- Creating a Connection to the Database.
- Displaying a DataSet in a List-Bound Control.
- XML and the DataSet Object.
- Development of web apps using Master/Details controls (GridView, DetailView, FormView, etc.).
- Accessing Data with DataReaders. Using the new DataSource Model.

*Hands-on work* : Accessing an SQL database from an ASP.NET page and incorporating the data into the Web application.

#### 5) XML Web Service

- Overview of XML Web Services and SOA Architectures.
- Calling a Web Service by HTTP. Use of a Proxy.
- Creating and consume an XML Web service.

*Hands-on work* : Use the templates in Visual Studio .NET to create an XML Web service.

## DATES

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### REMOTE CLASS

2024 : 08 Jul, 07 Oct