

# Web Application Development with ASP.NET MVC 5

Hands-on course of 4 days - 28h

Ref.: ASA - Price 2024: €2 390 (excl. taxes)

## THE PROGRAMME

last updated: 01/2018

### 1) Introduction

- Summary of Web technologies of the .NET framework.
- Overview of the MVC5 model.
- .NET MVC5 projects in VS2013.

*Hands-on work* : Creating an MVC5 application.

### 2) Model and controllers.

- Modeling your domain.
- Using strongly typed views. Data linking.
- Using Entity Framework 6 in MVC5.
- Implementing actions. Managing models.
- Filter management. Displaying and publishing data.

*Hands-on work* : Development of MVC4 models. Creating MVC5 controllers.

### 3) Views

- Razor view engine. Dynamic content.
- View model. Application of CSS styles.

*Hands-on work* : Creating MVC5 views, using Bootstrap in MVC5.

### 4) URL Routing

- URL patterns. Designing the routing.
- Routing customization, Routing attributes in MVC5.

*Hands-on work* : Routing scenarios and MVC5 navigation structures.

### 5) Ajax and jQuery

- Ajax Helper and jQuery/jQueryUI.
- Partial updates. Cache management.
- Other optimization techniques.

*Hands-on work* : Creating JavaScript pages and MVC5 Ajax

### 6) Validation and security

- Server-side validation. DataAnnotations, alternative techniques, client-side validation.
- Alternative techniques. Client-side validation. Authentication modes.
- Implementing ASP.Net authentication and role management. Auditing the code's security.
- ASP.NET Identity in MVC 5, Authentication filters.

*Hands-on work* : Implementing security in an MVC 5 application.

### 7) Web API and development

- Implementing Web API. Managing REST requests. Web and Mobile clients.
- HTTP modules and HTTP managers. Unit tests and exception management.

#### 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](mailto:psh-accueil@ORSYS.fr) to review your request and its feasibility.

- Deployment to a test server. Deployment to Azur. Types of deployment via VSTO.  
*Hands-on work : Managing application deployment.*

## DATES

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Contact us