# Course : Blazor, Web development

*Practical course - 3d - 21h - Ref. BLZ*
*Price : 1720 € E.T.*

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This training course will enable you to understand and master Blazor, the free, open-source Web framework developed by Microsoft. You'll build Web applications using HTML and C#, and be able to interoperate with Javascript using .Net methods. You'll secure your applications with authentication.

## 🎯 Teaching objectives

**At the end of the training, the participant will be able to:**

- ✓ Understanding Blazor's architecture
- ✓ Communicating in Websockets mode
- ✓ Creating forms with validations
- ✓ Setting up authentication with Blazor

## Intended audience

Developers, project managers, architects

## Prerequisites

Knowledge of .Net or good knowledge of an object-oriented language and the Web

## Course schedule

### 1  Overview of technologies used

- .NET Core features.
- Web Api and Framework MVC.
- Web browser security.
- The Design Pattern: MVVM.
- Web assembly, Websockets, SignalR.

**Hands-on work**
Creation of a first Blazor application

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**PARTICIPANTS**
Developers, project managers, architects

**PREREQUISITES**
Knowledge of .Net or good knowledge of an object-oriented language and the Web

**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.

## 2  Blazor architecture

- Blazor, Razor's convergence adapted to the browser.
- Blazor Server on the server side for compatibility.
- Using SignalR web sockets for communication.
- Blazor Web assembly on the client side.
- Techniques for sharing code between server and client.
- DOM interaction, Javascript Interop and sandbox security.

### Hands-on work
Implementation of code sharing and integration of JavaScript to manipulate the DOM of a Web page.

## 3  Les bases de Razor

- Structure of a Razor project.
- Routing and navigation to reach components.
- Different configurations depending on the runtime environment.
- Razor dependency injection container.
- Blazor Net 5 components. Virtualization for performance.
- Razor class Libraries for sharing GUI code.
- Hosting and deployment of Razor applications.

### Hands-on work
Creation of a first Blazor component with parameter and method management.

## 4  Communication with the server

- Blazor server: server-side execution.
- Through HTTP REST API.
- CORS safety.
- Using SignalR for Websockets communication.

### Hands-on work
REST Webservice consumption and Web sockets implementation with SignalR.

## 5  Razor's best practices

- Forms, bindings and validation.
- Globalization / Localization.
- Inter-session status management.
- Layouts to factorize page structure.
- Template-based components.
- Virtualization of components for high performance.

### Hands-on work
Form creation with field validation

## 6  Safety with Blazor

- Blazor Server security with AuthorizeView.
- Blazor Client security with AuthenticationStateProvider.
- Providing an OpenId identity and WebAssembly Authentication Library.

### Hands-on work
Server-side security with AuthorizeView

## Dates and locations

**REMOTE CLASS**
2026 : 22 June, 5 Oct., 14 Dec.

**PARIS LA DÉFENSE**
2026 : 22 June, 5 Oct., 14 Dec.