

# Course : SharePoint Server, Development and custom extensions

*Practical course - 4d - 28h00 - Ref. SHS*

*Price : 2790 CHF E.T.*

NEW

This course takes a more in-depth look at development and customized extensions, including the use of APIs and object models, Web Parts creation, SPFx integration, interoperability and deployment of complete solutions.

## Teaching objectives

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

- ✓ Develop customized solutions and Web Parts.
- ✓ Use SharePoint API and object models (CSOM/JSOM/REST).
- ✓ Integrate extensions via Visual Studio and SharePoint Framework.
- ✓ Create customized workflows and forms.
- ✓ Deploy, test and maintain customized solutions.

## Intended audience

.NET developers, application architects, SharePoint integrators, technical consultants.

## Prerequisites

Mastery of C#, HTML, JavaScript and notions of Web development in Visual Studio.

## Course schedule

### 1 Architecture and development models

- Understand SharePoint object models.
- Discover REST and JSOM APIs.
- Identify extension scenarios.

### Hands-on work

Exploring the REST API for reading and writing lists.

### PARTICIPANTS

.NET developers, application architects, SharePoint integrators, technical consultants.

### PREREQUISITES

Mastery of C#, HTML, JavaScript and notions of Web development in Visual Studio.

### 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 Server-side development

- Create Web Parts, Event Receivers and Timer Jobs.
- Using Visual Studio and the Farm Solutions model.
- Manage deployment and signature of solutions.

### Hands-on work

Development of a digital signage Web Part.

## 3 Client-side development

- Use SharePoint Framework (SPFx).
- Integrate React, TypeScript and PnP JS.
- Create modern extensions (Command Sets, Field Customizers).

### Hands-on work

Creation of an SPFx extension with dynamic graphics.

## 4 Integration and interoperability

- Connect SharePoint with Power Automate and Teams.
- Integrate external services via Graph API.
- Create customized connectors.

### Hands-on work

Integration of a Power Automate flow triggered from a list.

## 5 Testing, deployment and maintenance

- Implement unit and load tests.
- Deploy via App Catalog.
- Monitor performance and compatibility.

### Hands-on work

Deployment and supervision of a complete SPFx solution.

## 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.

## Dates and locations

### REMOTE CLASS

2026: 31 Mar., 30 June, 29 Sep., 15 Dec.