

# Course : SharePoint 2019, Developer

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

*Price : 2380 € E.T.*

During this course, you'll complete a wide range of projects, from a custom theme to a business workflow, including the development of WebParts and add-ons. These productions provide an overview of the many tools available: CSOM, CAML, LINQ, SPFx.

## Teaching objectives

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

- ✓ Installing the development environment
- ✓ Proficiency in various development tools, including CSOM, SPFx, SharePoint Designer
- ✓ Develop WebParts, a master page, a footer, a new banner menu
- ✓ Master different data access methods: CAML, LINQ, Web Service
- ✓ Developing and deploying supplements
- ✓ Designing and implementing a workflow

## Intended audience

Developer, .NET Web project manager.

## Prerequisites

Experience in ASP.NET and C# development. Knowledge of client-side development (JQuery, REACT.JS or TypeScript). Knowledge of SharePoint portal functionalities.

## Practical details

### Hands-on work

30% of time in conceptual presentations, 70% of time in practical work

## Course schedule

### PARTICIPANTS

Developer, .NET Web project manager.

### PREREQUISITES

Experience in ASP.NET and C# development. Knowledge of client-side development (jQuery, REACT.JS or TypeScript). Knowledge of SharePoint portal functionalities.

### 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.

## 1 Remote development with CSOM

- What's new in SharePoint 2019.
- Architecture and key elements for developers.
- CSOM (Client Side Object Model).
- SharePoint PnP CSOM.

### Hands-on work

Install development tools. Identify the development environment.  
returnchariot Make a remote management tool for a SharePoint site.  
returnchariot

## 2 Development and design for the classic interface

- Theme and master page design. Page layout.
- Development of Web Parts for the classic interface.

### Hands-on work

Design a custom theme. Create a new master page. Inject responsive CSS.  
returnchariot

## 3 Development of battery solutions

- The Server object model and SharePoint API programming.
- Development for ribbon and standard menus.

### Hands-on work

Develop a solution to change the master page and add new functionalities.

## 4 Customer developments for the modern interface

- The development tool chain for the SharePoint Framework (SPFx).
- SPFx extensions and their development.

### Hands-on work

Develop a footer and a new menu for the banner.

## 5 Data query methods

- Data queries using CAML/LINQ/REST, OData and comparisons.
- The REST/OData model.

### Hands-on work

Make WCF (Windows Communication Foundation) Web Services calls using REST APIs to obtain SharePoint data.

## 6 Development and deployment of supplements

- SharePoint add-ons.
- Supplier-hosted add-ons.
- Identification, authorization and connection mechanisms.
- Application catalog and delivery mechanisms.

### Hands-on work

Develop an add-on to manage meeting minutes. Develop a supplier add-on.  
Deployment in the application catalog.

### 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.

## 7 SPFx Web Part development.

- Add custom properties and validation controls.
- The Web Parts properties pane.

### Hands-on work

Develop a Web Part with property extension and value validation.

## 8 Workflow design

- Introduction to Workflow Manager and its execution architecture.
- The different types of workflows and their development rules.
- Workflow design with SharePoint Designer.

### Hands-on work

Design of a customized workflow to manage purchase requisitions.