

# Project Server 2013 Development

2021

5 jours

+ 20 ANNÉES  
d'expériences  
à votre service

Smartfuture

FORMATION



Project



Smartfuture

Business | Education | Training | solutions



[www.smartfuture.tn](http://www.smartfuture.tn)

📷 📺 📺 in/ smartfuture.officiel

**Durée:**

5 jours

**Langue**

Anglais

**Formations dirigées par un instructeur****Objectif**

This course will show students how to develop application using the various APIs available in Project Server including Project Server Interface (PSI), .NET Client Side Object Model, JavaScript Object Model and REST. In addition, you will learn how to extend on-premise Project Server installs via web parts, local and remote event handlers, Apps via the new App Model and workflows.

**Profil population cible**

This course is intended for anyone that needs to build applications that leverage Project Server 2013.

**Examen de certification**

Préparation pour examen : N/A

PROGRAMME





## Prérequis :

Understanding of Project Server basic concepts (projects, resources, tasks, assignments, etc), SharePoint navigation, and common web technologies like HTML, Javascript and JQuery. A firm understanding of .NET C# is also required.

## Plan du cours

Develop applications for Project Server using PSI and CSOM.

Develop and create Project Server workflows. Develop applications for Project Server using PSI and CSOM.

Develop and create Project Server workflows.

## Module 1

### Overview

A simple introduction module.

### Leçons

- Understand your course, classroom, classmates, facility and instructor.

PROGRAMME





## Module 2

### Project Server Introduction

In this module you will be introduced to Project Server 2013 features and architecture and a brief review of the Microsoft Enterprise Project Management (EPM) stack.

#### Leçons

- Understand the Microsoft EPM solution stack
- Describe the new features of Project Server 2013
- Describe the architecture of Project Server 2013
- How to install Project Server 2013
- How to setup and configure a Project Web App site

## Module 3

### Project Service Interface (PSI)

Description: In this module you will learn about Project Server Interface (PSI). Each of the PSI ASMX and WCF interfaces will be explored and you will learn how to use these endpoints in your own applications.

#### Leçons

- Describe Project Server Interface (PSI)
- Describe each PSI endpoint service
- Create updated PSI Proxy assemblies
- Build applications that create and modify various Project Server objects using PSI
- How to extend PSI with your own end points

PROGRAMME





## Module 4

### Client Side Object Model

In this module you explore the new .NET Client Side Object Model (CSOM) of Project and SharePoint Server and how it differs from developing with PSI.

#### Leçons

- Describe the .NET CSOM libraries
- How to create applications that use the CSOM
- How the CSOM formats and sends requests to Project Server and SharePoint
- How to debug CSOM calls using Fiddler
- Understand the CSOM message size limits

## Module 5

### REST API

In this module you will learn how to use the Project Server REST APIs in your applications. In addition, you will learn about the OData specification and how to format your REST urls to limit, sort and filter the returned data.

#### Leçons

- Describe the Project Server REST API
- Describe how OData works with the REST API
- Use OData to filter your REST data
- Use REST to create, retrieve, update and delete Project Server objects
- Learn about useful tools to help aid your REST development





## Module 6

### Programming Project Server

In this module you explore how to develop and deploy various extensions to Project Server 2013. These include custom actions, Web Parts, and local and remote event receivers. Additionally you will learn to interact with the JS Grid control.

#### Leçons

- Extend Project Server with custom actions (ribbon and items)
- Understand the JS Grid control features and how to extend it
- Create and deploy Project Server web parts
- Create server event handlers
- Create remote event receivers

## Module 7

### Developing Reports

In this module you will learn about many of the Business Intelligence and Reporting features of Project Server 2013. This includes the default set of Excel Services Reports and how to use the more advanced reporting features like Analysis Services, PowerPivot and PerformancePoint.

#### Leçons

- Describe the Business Intelligence and Reporting features of Project Server
- Describe the default reports in the ProjectBICenter site
- How to setup and use the Analysis Services feature
- How to create customized Reports and Dashboards
- How to use BI related web parts
- How to use Excel Services, PerformancePoint, Reporting Services and Analysis Services for reporting

PROGRAMME





## Module 8

### Developing Apps

In this module you explore how to create various types of Apps for Project and Project Server using the various APIs explored in the previous modules. You will also learn how to publish your Apps to the SharePoint App store for others to take advantages of. Additionally you will gain a deep understanding of the authentication models of Apps.

#### Leçons

- Create Project Task Pane Apps
- Create SharePoint and Provider hosted Apps
- Describe how OAuth works with Apps
- Describe the difference between High and Low Trust Apps
- Describe the various deployment methods for Office and SharePoint Apps
- How to work with Project Server App Packaging
- Describe how to create and publish Apps to the SharePoint App Store

## Module 9

### TFS and Project Server Integration

In this module you will learn what TFS is and how it integrates with Project Server to manage development projects.

#### Leçons

- Describe TFS and Project Server integration
- Install and configure TFS extensions for Project Server
- Manage project tasks with TFS and Project Server





## Module 10

### Configuring the Business Intelligence Center

In this module you will learn how to work with SharePoint and Project Server workflows.

#### Leçons

- Describe the Project Server workflow architecture
- Create Project Server workflows with SharePoint Designer
- Create Project Server workflows with Visual Studio
- Create workflow Stages and Phases
- Design a project approval workflow

PROGRAMME





Smartfuture



Make it  
happen...



*« we do it with quality »*

    /smartfuture.officiel