



# Progressive Web Apps (PWA)

Duration 2 day(s) (PWA-01)

Work with progressive web apps

## Description

In the latest statistics published on the use of the web, the majority was done on a smartphone. This causes possible problems of connections, performance or user experience. The different specifications behind the term "Progressive Webapps", will allow us to develop a web application whose user experience is as good as a native application.

## Goals

- Know the concepts of Progressive Web Apps
- Know how to optimize an application
- Improve the user experience of your application
- Master the new concepts of Web development: Service Worker, Web Worker, IndexedDB, ...

## Public

- Web developer

## Prerequisites

- JavaScript, NodeJS Ecosystem

## Structure

40% Theory, 60% Practice

## Program

### Introduction

- Concepts
- Use case
- Examples

- Chrome Dev Tools
- Workbox
- Lighthouse
- Testing

### Manifest Web App

### HTTPS protocol

### Web App Install Banner

### IndexedDB

### Service Worker

- Life cycle
- Use
- Cache Strategy
- API cache
- Fetch API

### Web Worker

### Push Notification

### Shell App

### Optimizing your application

- PRPL Pattern
- Webpack
- Splitting code
- Tree Shaking

### Other APIs: Vibration, Battery,

...

### Tooling