Course : Ionic, developing cross-platform mobile applications

Practical course - 2d - 14h00 - Ref. IOC
Price : 1280 € E.T.

★★★★½   4,4 / 5

Ionic is a framework for building native applications using Web technologies. Based in part on AngularJS and Cordova, Ionic lets you create Progressive Web Applications for mobile (iPhone and Android) close to native applications, using HTML, CSS and JavaScript.

Teaching objectives

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

- Setting up a hybrid development environment
- Developing a mobile application based on Ionic and Angular
- Master the productivity tools offered by Node.js
- Integrating a Mobile Backend
- Prepare application build and deployment

Intended audience
Web developers and mobility project managers.

Prerequisites
Good knowledge of HTML, CSS and JavaScript. Mastery of the Angular framework is an additional asset.

Practical details
Hands-on work
Creation of a "hybrid" IOS/Android mobile application and compilation in the Cloud.

Teaching methods
Mobile application development. 50% theory and 50% practice.

Course schedule

PARTICIPANTS
Web developers and mobility project managers.

PREREQUISITES
Good knowledge of HTML, CSS and JavaScript. Mastery of the Angular framework is an additional asset.

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 Setting up a modern development environment

- Choice of editor, essential plug-ins.
- Best practice foundation: mobile and "Web-platform".
- Node.js development utility. Synchronization "multi-device".
- Choose and set up a mobile "workflow".
- Yeoman. Use a "scaffoldeur" project.

Hands-on work
Tool configuration.

2 Ionic SDK: presentation and implementation

- Presentation of the Ionic service offering.
- Development framework "hybrid", positioning.
- Components : Utilities, CSS, JavaScript, Services.
- Technologies: cloud services, Cordova, the choice of Angular.
- Start, emulate and debug an application.
- Contribution of the CSS Framework.

Hands-on work
Implementation of an application project.

3 Ionic + Angular: introduction to the Google Framework

- Structure of an Angular application.
- Identify resources: Services, Components, Directives, Pipe.
- Ajax: Web services consumption.
- SPA (Single Page Application) routes and navigation.
- Ionic mobile components.
- Independent use of the Ionic CSS Framework.

Demonstration
Structure of an Angular application.

4 The Ionic Framework in depth

- Targeted platform customization (IOS/Android).
- Content management: lists, loading, "scroll", "pull to refresh".
- Navigation management: menu, route and persistence.
- Interactive components : modal, action sheet, popover"
- Create effective forms.
- User gestures : swipe, slide, tap...".

Hands-on work
Development of an application based on Ionic and Angular.

5 Manage user data persistence

- Ionic Native: using Cordova plugins.
- Adopt an "offline first" strategy.
- APIs for local backup: IndexDB localStorage.
- Centralizing data: redefining the UX cycle.
- What features can you expect from a Mobile Backend?
- Authentication and push notification services[.

Hands-on work
Integration of a "Backend Cloud".

6 Prepare for [[build]] and deployment

- Automate the creation of icons and splash screens.
- Presentation of the services of the "Ionic Platform".
- "Build" build service.
- Continuous deployment cycle.

Hands-on work
Application preparation and deployment.

Dates and locations

REMOTE CLASS
2026 : 18 May, 1 Oct.

PARIS LA DÉFENSE
2026 : 18 May, 1 Oct.