

# AngularJS: Mastering Google's JavaScript Framework

Hands-on course of 3 days - 21h

Ref.: FAN - Price 2025: 2 120 (excl. taxes)

## THE PROGRAMME

last updated: 02/2024

### 1) JavaScript refresher

- Components of a Web application. HTML5 and CSS3
- Web/JavaScript development tools.
- HTML and JavaScript rendering engines. DOM, BOM.
- JavaScript refresher: Prototypes, closures, and callbacks.
- Refresher on object concepts in JavaScript.
- REST-oriented Ajax application.

*Exercise : Configuring the environment.*

### 2) Overview of the AngularJS framework

- AngularJS, positioning: jQuery, ExtJS, etc.
- Integration/ Compatibility, versions, documentation.
- Features and general principles.
- AngularJS directives, HTML compiler.
- Expressions. Two-way data-binding. Filters.

*Exercise : Preparing an HTML model for development with AngularJS.*

### 3) Controllers and scope management

- Creating and using controllers.
- Context management, the variable \$scope.
- Event propagation. API. Dirty checking.
- Processing and approving forms.

*Exercise : Integrating controllers.*

### 4) Module and dependency injection

- Features of the object angular.
- Principle of dependency injection.
- Concept of a module. Configuration.
- Dividing your application.

*Exercise : Modularizing the application.*

### 5) Defining routes

- Routing. API (\$routeProvider). Deep linking.
- History and access to URL parameters.
- Use of \$location and \$routeParams. Hashbang and HTML5 modes.
- View pre-processing. Use of "fragments".

*Exercise : Creating a Single Page Application.*

### 6) Data feature, Server Exchange

- API (\$provide, \$injector). Creating a provider.
- Methods: Service, Factory, Provider, Value.

#### 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.

#### 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.

- Ajax query with the \$http service. Integrating REST with the service \$resource. WebSockets. Promise API.
- Integration with Node.js.

*Exercise : Integrating REST with Node.js.*

### 7) Integrating automated tests

- Test utilities: Jasmine. Angular-scenario. Test: controllers, services, etc. Use with Karma.
- End to End Testing: User interface.

*Exercise : Creating unit tests.*

### 8) Best practice and tools

- Yeoman, optimizing development.
- Internationalization (I18N), implementation.

*Hands-on work : Implementation.*

## DATES

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### REMOTE CLASS

2025 : 08 sept., 17 nov.