

# Angular, Advanced Development

Hands-on course of 3 days - 21h

Ref.: ANY - Price 2024: €2 070 (excl. taxes)

## EDUCATIONAL OBJECTIVES

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

- De decorators van Angular kunnen gebruiken
- Complexe webapplicaties samenstellen
- De documentatietools en de eenheidstests integreren
- Ontwikkelen en integreren van componentenbibliotheken

## TEACHING METHODS

Each new theoretical concept will be applied immediately in a practical way.

Modular composition of an app with Angular.

## THE PROGRAMME

last updated: 06/2022

### 1) Angular, toepassing van de goede praktijken

- Injectie van afhankelijkheden.
- Gedeelde applicaties.
- PWA: de service workers.
- Geavanceerde HTTP-query's.
- Lazy loading.
- De documentatie automatiseren.
- Internationalisering.

*Hands-on work* : Een applicatie analyseren en optimaliseren.

### 2) Interne werking van Angular

- ZoneJS: het concept.
- Optimalisatie van view-cycli, uitvoering buiten ZoneJS.
- RxJS kiezen.
- Gebruik van observables.
- Creatie, combinatie, key-operators.
- Compilatie Ahead of Time.
- Webpack bundle analyzer.
- Angular 9 Ivy Engine: configuratie en migratie.

*Hands-on work* : Een applicatie maken met behulp van RxJS.

### 3) Aanmaak van distribueerbare componenten

- De webcomponenten.
- Methodologie: interactieve component sheet.
- De decorators.
- De change detection mode.
- Neutrale versus statuscomponenten. Communicatie tussen componenten, optimalisatie ES6.
- Projectie van de content, sturing van child componenten.
- De componenten voorbereiden voor de distributie.
- Documentatie: dynamische generering.

*Hands-on work* : Distribueerbare componenten ontwikkelen en verpakken.

## 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.

#### 4) Rijke componenten en externe bibliotheken

- Ontdekking van het Angular-ecosysteem voor gegevensbeheer, AngularFire, NgRx.
- De UI-bibliotheken: Angular Material, Prime NG...
- Animaties.
- Beheer van multiprojectontwikkelingen.

*Hands-on work* : Hergebruik van componenten, integratie van externe bibliotheken.

#### 5) Dynamisch formulier: de FormBuilder

- Aanmaken dynamisch formulier: ReactiveFormsModule.
- FormControl en FormGroup, AbstractControl, FormArray.
- Gepersonaliseerde validatie en foutbeheer.
- Aanmaken van gegevensmodellen.
- Gebruik van FormBuilder.
- Dynamische aanmaak van template.
- Abstractie formulier-vakcomponent.

*Hands-on work* : Implementatie van de generering en geavanceerde validatiecycli van het formulier.

#### 6) Eenheidstesten. Beste praktijken en tools

- Karma en Jasmine.
- Integratietests met Protractor.
- De Code-Coverage.
- Behaviour driven development, Test driven development.
- Testcase: pipe, component, service, etc.

*Hands-on work* : TDD: ontwikkeling van een applicatie op basis van eenheidstesten.

## DATES

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Contact us