# Angular

## Description

This Angular training course gives web developers an intensive hands-on on introduction to hand-coding responsive, high-performance web apps using Google's Angular Framework.

**Classroom Registration Price (CHF)**
2300
**Virtual Classroom Registration Price (CHF)**
2150
**Course Content**
**Module 1: Quickstart**

- Lesson 1: Installation
- Lesson 2: Configuration
- Lesson 3: Angular Architecture

**Module 2: Angular Command Line Interface**

- Lesson 1: Overview & Installation
- Lesson 2: Usage

**Module 3: Components**

- Lesson 1: Overview
- Lesson 2: Architecting with Components
- Lesson 3: Templates, Styles & View Encapsulation
- Lesson 4: Content Projection
- Lesson 5: Lifecycle Hooks
- Lesson 6: View & Content Children
- Lesson 7: Wrapping Up

**Module 4: Built-In Directives**

- Lesson 1: Overview
- Lesson 2: NgFor
- Lesson 3: NgIf & NgSwitch
- Lesson 4: NgStyle & NgClass
- Lesson 6: Structural Directives

**Module 5: Custom Directives**

- Lesson 1: Overview
- Lesson 2: Creating a Custom Directive

**Module 6: Pipes**

- Lesson 1: Overview
- Lesson 2: Built-In Pipes

- Lesson 3: Async Pipe
- Lesson 4: Custom Pipes

## Module 7: Forms

- Lesson 1: Overview
- Lesson 2: Model Driven Approach
- Lesson 3: Model Driven Form Validation
- Lesson 4: Submitting & Resetting
- Lesson 5: Reactive Model Driven Forms
- Lesson 6: Template Driven Forms

## Module 8: Advanced Validators

- Lesson 1: Custom Form Validators
- Lesson 2: Configurable Custom Form Validators

## Module 9: Dependency Injection & Providers

- Lesson 1: Overview
- Lesson 2: Injectors

## Module 10: Routing

- Lesson 1: Overview
- Lesson 2: Route Configuration
- Lesson 3: Navigation
- Lesson 4: Parameterised Routes
- Lesson 5: Nested Routes
- Lesson 6: Router Guards
- Lesson 7: Routing Strategies

## Module 11: Unit Testing

- Lesson 1: Overview
- Lesson 2: Jasmine & Karma
- Lesson 3: Classes & Pipes
- Lesson 4: Mocks & Spies
- Lesson 5: Angular Test Bed
- Lesson 6: Change Detection
- Lesson 7: Asynchronous Code
- Lesson 8: Dependency Injection
- Lesson 9: Components
- Lesson 10: Directives

## Module 12: HTTP

- Lesson 1: Overview
- Lesson 2: Core HTTP API (Part 1) Setup
- Lesson 3: Core HTTP API (Part 2) Usage
- Lesson 4: HTTP with Observables (Part 1) - Basic Observables
- Lesson 5: HTTP with Observables (Part 1) - Observables All The Way Down

## Module 13: Reactive Programming with RxJS (if time permits)

- Lesson 1: Overview
- Lesson 2: Streams & Reactive Programming
- Lesson 3: Observables & RxJS
- Lesson 4: RxJS & Angular
- Lesson 5: Wrapping Up

## Documentation

- Digital courseware included

## Participant profiles

- Full-Stack Web Developers
- Front-End Web Developers

## Prerequisites

- To have followed the course Typescript or equivalent knowledge
- Experience of web development with HTML and JavaScript / ECMAScript
- Object Oriented programming experience would be useful

## Objectives

- Code TypeScript language features
- Explore Angular coding and architecture best practices
- Understand and use Angular Forms, Observables, Dependency Injection, and Routing
- Retrieve, update, and delete data using Angular's Http service
- Unit test all the parts of an Angular application including Modules, Components, Services, and Pipes
- Create, build, and deploy an Angular application
- Develop reusable elements (even out of angular applications)
- Develop dynamic Model-driven forms that are easier to unit test

**Niveau**
Intermédiaire
**Duration (in Days)**
3
**Reference**
ANGULAR