



Information Technology

Angular 10

Course Introduction

This training course is designed to provide participants with a comprehensive introduction to creating responsive, high-performance, scalable web apps using Google's hugely popular JavaScript-based web app framework. This course will enable participants to create projects using the latest release of Angular - with plenty of coverage of new features such as the Ivy compiler and runtime, which reduces finished bundle sizes and helps debug code. This will also cover topics on JavaScript and ECMAScript essentials and the fundamentals of TypeScript.

This course is an ideal on-ramp if you are an experienced developer and you are looking at moving into JavaScript development from other languages (e.g. cross-training from C#, Java, Python, PHP...).

Target Audience

This training course is designed for professional web developers and development teams who need to build and deploy robust commercial web applications.

Learning Objectives

- Gain a comprehensive understanding of how to create responsive, high-performance, scalable web apps using Google's hugely popular JavaScript-based web app framework
- Create an Angular project from scratch.
- Understand how to connect components, services, modules and directives
- Work with asynchronous data streams using Observables
- Build custom validation using Reactive Forms
- Create lazy-loading feature modules for your application
- Compare techniques for loosely coupled component communication

- Apply unit testing and end-to-end testing techniques.
- Add routing to your Angular application.

Course Outline

• Day 01

Javascript and Typescript review

- Review Javascript ES6 essentials including arrow functions, destructuring, classes, modules template strings and the spread operator
- Define custom types in Typescript using interfaces

Tooling & Setup

- Use the latest Angular CLI to create and modify application structure.
- Review development tools including Augury and Redux.

• Day 02

Angular fundamentals

- Show how component logic and template views fit together.
- Implement data-fetching using services and the HttpClient
- Add reusable code using custom directives.
- Use feature, core, shared and routing modules to structure an application

• Day 03

Angular architecture

- Connect services and components using dependency injection.
- Pass messages between components using services and Observables.

- Separate application state using Redux.
- Implement lazy loading modules.

• Day 04

Observables

- Introduce Observables for managing async streams of data.
- Review how Observables are implemented in Angular.

Forms

- Build a reactive form using Observables
- Implement custom validation

• Day 05

Routing

- Add routing to an Angular application
- Implement router guards

Testing

- Create unit tests using Jasmine
- Review E2E testing using Cypress

Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
April 7, 2025	April 11, 2025	5 days	4250.00 \$	UAE - Dubai
July 14, 2025	July 18, 2025	5 days	5950.00 \$	switzerland - Geneva
Nov. 10, 2025	Nov. 14, 2025	5 days	4250.00 \$	UAE - Abu Dhabi