

KOENIG SOLUTIONS • COURSE OUTLINE

Angular in 2 Days

Learn to build Angular single page applications, from components and data binding to services, forms and routing.

2 Days

DURATION

41

TOPICS

COURSE OVERVIEW

This course covers the fundamentals of TypeScript and single page applications before introducing Angular's building blocks, including modules, components, data binding, structural directives and component communication, along with Angular Material elements such as navigation bars and cards. It then moves into dependency injection and services, consuming REST APIs with HttpClient and handling HTTP methods and errors with RxJS. The course also addresses building template-driven and reactive forms with validation, implementing routing with child routes and route guards, and applying best practices such as feature modules, shared modules and lazy loading.

WHO THIS COURSE IS FOR

Front-End Developers

Web Developers

Software Engineers

Full Stack Developers

LEARNING OBJECTIVES

- Explain TypeScript and single page application concepts
- Build Angular components using the Angular CLI
- Apply data binding techniques such as interpolation and event binding
- Implement structural directives including *ngIf and *ngFor
- Configure component communication using @Input and @Output
- Develop services with dependency injection
- Implement CRUD operations using HttpClient and error handling
- Build template-driven and reactive forms with validation

41 Topics

DAY 1

TOPICS

Introduction to TypeScript · Introduction to Single Page Application · Setting up Development Environment · Angular Initial Application · Angular Directory Structure · Angular Building Blocks · Working with Modules

Working with Component

TOPICS

- Angular Components and the @Component Decorator
- Creating an Angular Component using the Angular CLI
- Component Decorator Metadata
- MVC, MVVM architecture

Data Binding

TOPICS

Interpolation · Property Binding · Event Binding · Two-way Data Binding [(ngModel)]

Structural Directive

TOPICS

*ngIf · *ngSwitch · *ngFor · *ngFor with trackBy

Angular Component Communication

TOPICS

@Input () · @Output ()

Working with Angular Material

TOPICS

Navigation Bar · Cards

DAY 2

TOPICS

Dependency Injection · Working with Services

APIs

TOPICS

Working with JSON Data · GET data from a Rest API using HttpClient

HTTP Methods

TOPICS

- CRUD Operations using HttpClient, HttpHeaders
- Adding HTTP Error Handling with RxJS catchError () & HttpClient

Angular Forms

TOPICS

Template Driven Form · Validating Template Driven Form · Reactive Form · Validating Reactive Form · Accessing Form Value · Resetting Form Value

Introduction to Routing (Single Page Application)

TOPICS

- Implementing Routing in an Angular App
- Implementing Child Routes
- Introduction to Route Guards in Angular
- CanActivate and CanDeactivate Guards in Angular

Angular Best Practice

TOPICS

Feature Module and Shared Module in Angular · Lazy Loading Modules

WHAT IS INCLUDED

Everything You Need to Succeed

- Koenig course material for every module
- Hands-on exercises throughout the course
- Delivery by certified instructors and subject matter experts
- Course completion certificate from Koenig

Who We Are

Established in 1993, Koenig Solutions is a globally recognised training provider with 35+ technology partnerships, 5,000+ training programmes and a network of certified instructors and subject matter experts, supporting individuals and enterprise teams worldwide.

FLEXIBLE DELIVERY

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Flexi (Self-Paced)

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