Introduction to Angular (TT4165)

Category: Software Development & Programming | **Vendor:** Trivera Tech

Duration: 24.00 hours (3 days) **19.5 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Course Overview

Angular is one of the most popular JavaScript frameworks for creating web and native mobile applications. This introductory course thoroughly explores the latest Angular features and advances, demonstrating how to solve the traditional challenges of JavaScript web application development. You will build custom components, using application routes, form validation, and unit-testing and delve into component-driven development with Angular components.

About This Course

Angular is one of the most popular JavaScript frameworks for creating web and native mobile applications. This introductory course thoroughly explores the latest Angular features and advances, demonstrating how to solve the traditional challenges of JavaScript web application development. You will build custom components, using application routes, form validation, and unit-testing and delve into component-driven development with Angular components.

Who Should Attend

In order to be successful in this class, incoming attendees are required to have current, hands-on experience in developing basic web applications, and be versed in HTML5, CSS3 and JavaScript. This is an introductory level Angular development course but an intermediate level web development class, designed for experienced web developers that need to further extend their skills in web development

Learning Outcomes

Upon successful completion of this course, participants will be able to:

Working within in an engaging, hands-on learning environment, guided by our expert team, attendees will learn to:

What Angular is and why should you use it

How Angular reduces the amount of code that you must write to add rich functionality to both existing and new web pages

What TypeScript is, why it is useful, and how to use it with Angular

How to facilitate development and deployment using Angular CLI

How to work with the various aspects of the Angular architecture to implement clean, responsive web interfaces

How Routers can support navigation within a Single Page Application

What the best practices are for using Angular so that it works unobtrusively and performs well

How to use Angular with HTTP to support JSON, REST, and other services

Best practices for Angular so that it works unobtrusively and performs well

Detailed Course Outline

Angular Overview

- Overview of Angular Architecture

Getting Started with Angular

- Getting Started with TypeScript
- Bootstrapping with Angular CLI
- Angular Project Structure

Unit Testing with Angular

- Testing and Angular

Working with Angular

- Components and Events
- Third Party Libraries
- Dynamic Views
- Pipes
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Angular Forms

- Forms and the Forms API

Single Page Applications and Routes

- Single Page Applications
- Services and Dependency Injection
- Modules

Using RESTful Services

- Overview of REST
- Angular and REST

Angular Best Practices

- Angular Style Guide
- What is New in Angular 9
- Additional Topics (Time Permitting)
- Lesson: ES6+
- Sass and SCSS for Angular and Material

, Overview of Angular Architecture

Angular Versioning

Data Binding

Components and Dependency Injection

Services and Events

Common Component Lifecycles and Hooks

TypeScript

Angular, ES6 and TypeScript

Typing and Classes

Abstract Classes and Interfaces

Annotations

Generics

Optional Chaining

Nullish coalescing

Decorators

Partial, Record, Union types

Bootstrapping with Angular CLI

Angular CLI Overview

New Projects with CLI

Testing and Generating with CLI

Angular Console €œ NX Console

Angular Basics

Configuration Files

Working with angular.json

Top-Level Directories

Contents of app folder

Angular DevTools

Working with Angular

Components and Events

Data Binding and Components

Event Binding

Custom Events

Parent/Child Events

EventEmitter/emit()

Third Party Libraries

Angular and the Need for Libraries

Options for adding Libraries

Working with npm install

Dynamic Views - Directives

View Encapsulation

Structural/Attribute Directives

Conditional Styling

Pipes

Overview of Pipes

Built-in Pipes

Formatting and Conversions

Parameterizing Pipes

Pure vs. Impure Pipes

Customizing Pipes

Angular Forms

Forms and the Forms API

Forms and NgModel

NG Form Groups

NG Form Validation

Model-Driven Reactive Forms

FormBuilder API

Reactive Form Validation

Single Page Applications and Routes

Single Page Applications - Routing

Overview of the SPA Concept

Routing for Page Display

Working with ActivatedRoute

Location Strategies

Nested Routes

Services (Dependency Injection)

Angular's DI Framework

Components and Injectables

Tree-shakeable providers

Service Interfaces and DI

Constructor Injection

Modules

Overview of Modules

Feature Modules

Feature Module Routing

Shared Modules

Using RESTful Services

Angular and REST

REST in Angular

Promises, Observables, Subject

HttpClient and Observables

async Pipes and HttpClient Interceptors

Additional Course Details

Nexus Humans Introduction to Angular (TT4165) training program is a workshop that presents an invigorating mix of sessions, lessons, and masterclasses meticulously crafted to propel your learning expedition forward.

This immersive bootcamp-style experience boasts interactive lectures, hands-on labs, and collaborative hackathons, all strategically designed to fortify fundamental concepts.

Guided by seasoned coaches, each session offers priceless insights and practical skills crucial for honing your expertise. Whether you're stepping into the realm of professional skills or a seasoned professional, this comprehensive course ensures you're equipped with the knowledge and prowess necessary for success.

While we feel this is the best course for the Introduction to Angular (TT4165) course and one of our Top 10 we encourage you to read the course outline to make sure it is the right content for you.

Additionally, private sessions, closed classes or dedicated events are available both live online and at our training centres in Dublin and London, as well as at your offices anywhere in the UK, Ireland or across EMEA.

Frequently Asked Questions

Q: What delivery options are available for Introduction to Angular (TT4165)?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: How many CPD hours does this course provide?

The 3-day Introduction to Angular (TT4165) course provides up to 19.5 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the Introduction to Angular (TT4165) training?

The training takes place over 3 day(s), with each day lasting approximately 24.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for Introduction to Angular (TT4165)?

Yes, we provide corporate training, dedicated training, and closed classes for Introduction to Angular (TT4165). Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: What related terms do people search for?

Popular related searches include: JavaScript; Angular

Q: Why choose Nexus Human for Introduction to Angular (TT4165)?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your Introduction to Angular (TT4165) training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

Nexus Human

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