

## Angular and New Features

CODICE	DT0002
DURATA	4 gg
PREZZO	1.590,00 €
EXAM	

### DESCRIZIONE

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Angular si rinnova ed arriva alla nuova versione del framework. Con questo corso si apprenderanno le novità introdotte e si scoprirà come arricchire le applicazioni web.

### TARGET

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Web Developer

### PREREQUISTI

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Per poter seguire il corso base è necessaria una basilare conoscenza di HTML5, CSS e Javascript.

### CONTENUTI

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## Introduction

- What is Angular?
- What's new in Angular?

## Overview of Typescript and ES6 JavaScript

- TypeScript Syntax
- Using the TypeScript transpiler
- Setting up Angular and Typescript

## Overview of Angular Parts

- Angular CLI
- Components
- Directives
- Inputs and Outputs
- Data Binding and Interpolation

- Event Binding
- Data Modelling
- Bootstrapping

## Creating Your First Angular Application

- Planning the Application
- Setting Up an Angular Project
- Creating a mobile friendly UI using Bootstrap 4 and Sass

## Creating a Component

- Understanding the Component Lifecycle
- Data Flow
- Using Templates and Styles
- Projecting Content
- Working with AppModule
- Working with Custom Components
- Using View Encapsulation
- Implementing Lifecycle Hooks
- Using ViewChildren and ContentChildren

## Data Binding in Angular

- Understanding Property and Event Binding
- Binding and Assigning Aliases to Custom Properties
- Binding and Assigning Aliases to Custom Events

## Working with Directives

- Built-in Directives
- Custom Directives

## Angular Services

- Creating a Logging Service
- Creating a Data Service

## Using Dependency Injection and Providers

- Injectors, Provider, and Tokens
- Configuring Dependency Injection
- Configuring Your Provider
- Injecting Services into Components, Directives, and Services

## Switching Pages with Routing

- Understanding the Different Navigation Methods
- Routing Strategies
- Setting Up Routes
- Configuring and Loading Routes
- Using Parameters in Routes
- Creating Nested Routes
- Using Redirect and Wildcard Routes
- Understanding Route Guards

## Using RxJS to Create and Work with Observables in Angular

- Overview of Observables
- Overview of RxJS
- Building & Using Observables in Angular

## Generating Forms for User Input

- Using the Template Driven Forms
- Using the Reactive Forms
- Creating custom validation
- Validating, filtering, and sanitizing form data

## Using Pipes

- Transforming output
- Built-in Pipes
- Async Pipe
- Custom Pipes

## Making Calls to External HTTP APIs

- Sending requests

## Using Angular Modules

### Testing the Angular Application

- Using Jasmine for unit testing
- Using Protractor for end-to-end testing

## Debugging the Application

- Understanding Error Messages in Angular

- Using Sourcemaps to Debug Code in the Browser
- Reading TypeScript Compiler diagnostics
- Using Augury

## Optimizing the Angular Application

- Reworking the code
- Reducing bundle size and eliminating dead-code

## Angular Security

- How authentication works
- Using JWT authentication
- What should and shouldn't be written in Angular

## Deploying an Angular Application to Production

- Deploying to IIS, Apache, Nginx, etc.

## Angular Best Practices

Troubleshooting