

# Angular Workshop

## Getting started with Angular



Angular is one of the most modern, performance-efficient and powerful frontend frameworks you can learn as of today. It allows you to build great web apps which offer awesome user experiences. The powerful features and capabilities of Angular allow you to create complex, customizable, modern, responsive and user friendly web applications. TypeScript is the main language used by the official Angular team and the language you'll mostly see in Angular. It's a superset to JavaScript and makes writing Angular apps really easy. Using it ensures, that you will have the best possible preparation for creating Angular apps. TypeScript knowledge is, however, not required - basic JavaScript knowledge is enough. In this course you will learn all the fundamentals you need to know to get started developing Angular applications right away.

### You Must Know!

#### Duration:

40 Hours

#### Who should attend?

Experienced or juniors Front-end Developers interested in learning a modern JavaScript framework.

#### Prerequisites:

Basic JavaScript knowledge is required

#### Main Topics:

- Angular Architecture
- Components and Databinding
- Directives and Pipes in Angular
- Services and Dependency Injection
- Routes and Navigation

## Course Modules

### Module 1 – Getting Started with Angular

- Building Blocks of Web Application Development
- Web Application Architecture
- Introduction to Angular
- Comparison between front-end tools
- Angular Architecture
- Building blocks of Angular
- Angular Installation
- Angular CLI
- Angular CLI commands
- Angular Modules
- Understanding files in Angular

### Module 2 – Angular Components and Databinding

- Working of Angular Applications
- Angular App Bootstrapping
- Angular Components
- Creating A Component Through Angular CLI
- Ways to specify selectors
- Template and styles
- Installing bootstrap to design application
- Databinding
- Types of Databinding
- Component Interaction using @Input and @Output decorator
- Component Lifecycle Hooks

### Module 3 – Directives and Pipes in Angular

- Understanding Angular Directives
- @Component Directive
- Structural Directives
- Attribute Directives
- Custom Directives
- Pipes

- Built-in Pipes
- Chaining pipes
- Custom pipes
- PipeTransform Interface & Transform Function
- Pure and Impure pipes

## Module 4 – Angular Services and Dependency Injection

- Angular service
- Need for a service
- Dependency Injection
- Creating a service
- Hierarchical Injector
- Injecting A Service into Another Service
- Observables
- RxJS Library
- Angular's Interaction with Backend
- Parts of an Http Request
- HttpClient

## Module 5 – Angular Routes and Navigation

- Angular Router
- Setting Up Routes
- Adding Routes Using RouterLink
- Wildcard and Redirecting Routes
- Adding Navigation Programmatically
- Passing Route Parameters
- Extracting Parameters Using ActivatedRoute
- Optional Route Parameters
- Child Routes
- Route Guards
- Location Strategies



המרכז הבינלאומי  
ללימודי הייטק וחדשנות

\* 6377

מתקדמים  
לקריירה בהייטק



Microsoft Partner  
Gold Learning



### קמפוסים בפריסה ארצית:

באר שבע

רחוב האנגריה 77  
פארק ההייטק

ירושלים

רחוב יפו 34

רחובות

רחוב אופנהיימר 5  
פארק המדע

תל אביב

ראול ולנברג 36  
קריית עתידים