**Angular 6 Training**

**Duration 6 days**

**ANGULAR 6 TRAINING PREREQUISITES**

All attendees must have substantial basic experience developing with JavaScript and html

**SOFTWARE NEEDED FOR EACH PC:**

* Google Chrome
* Other modern browsers as desired
* VS Code editor
* NodeJS 6.x
* Access to dropbox.com website for content sharing
* Access to forebase.google.com website.
* Internet connection with Min 5 MBPS speed

**ANGULAR 6 TRAINING OUTLINE**

**ANGULAR TRAINING OUTLINE**

DAY I

* Introduction. (Web)
* JavaScript  and ES6 features
* Introduction
* Type Script Introduction
* Let and Const
* Template Strings
* Lambda Functions
* Modules
* Classes
* Interfaces
* Why Angular?
  + User Experience similar to a Desktop Application
  + Productivity and Tooling
  + Performance
  + Community
  + Full-featured Framework
  + Platform for Targeting Native Mobile, not just Web Browsers
  + Angular with Node
  + Angular with .net and SharePoint

DAY II

* Angular 5 Basics
  + Components
  + Inline Templates
  + Multi-line Templates using ES6 Template Literals
  + External with Component-relative Paths
  + Models
* Template Syntax
  + HTML in templates
  + Interpolation
  + Binding syntax
  + Property binding
  + Event binding
  + Two-way data binding
  + Attribute, class, and style bindings

DAY III

* + Built-in Directives
  + Template Input Variables
  + The NgSwitch Directives
  + Template Reference Variables
  + Input and output properties
  + Template Expression Operators
  + Pipe ( | )
  + Safe Navigation Operator ( ?. )
* Components
  + Component Lifecycle Hooks
  + Component Communication
* Services & Dependency Injection
  + Using a service to access data
  + Using a service to encapsulate business logic
  + Understanding the scope of services
* Dependency Injection
  + Understanding Dependency Injection
  + Angular’s Dependency Injection System
  + Registering
  + Injecting
  + Hierarchical Injection

DAY IV

* Router
  + Importing the Router Module and Routes
  + Configuring Routes
  + Displaying Components using a Router Outlet
  + Navigating declaratively with Router Link
  + Navigating with code using the Router
  + Accessing parameters using Activated Route
  + Organizing your code into Modules **-**
* Model-driven Forms & Reactive Forms
  + Validations
* RxJS and Observables
  + What is an Observable?
  + Observable Operators
  + What is an Observer?
* Angular UI Components - Ag Grid

DAY V

* Communicating with the Server using the HttpClient Service
  + Deciding between Promises or Observables (RxJS)
  + Making an HTTP GET Request
  + Sending data to the server using Http POST and PUT Requests
* Angular 5/6 New Features
  + Build Optimizer
  + Angular Universal State Transfer API and DOM Support
  + Compiler Improvements
  + Internationalized Number, Date, and Currency Pipes
  + Export As Multiple Names
  + HttpClient
  + Angular CLI v1.5
* Ngrx-Store - State Management
* Ngrx-transulate

DAY VI:

* Unit Testing
  + Introduction to Testing
  + Writing Test Suites & Test cases
  + Unit Testing using Karma & Jasmine
  + Unit Testing Angular Components
  + Protractor and End to End testing
  + Testing Ag-grid with Protractor.
* Conclusion