JavaScript, ES6, TypeScript & Angular – Boeing Requirements

- Updated based on the solution call we had on Friday, June 1, 2018, with the Boeing team, between 11:30 am and 12:30 pm
- Updated number of hours based on telephone call with Megha on Sunday, July 1, 2018

BEGINNERS

- 1. Web Basics Day 1 1 hour
 - a. Introduction to the Web
 - b. Front-end basics
- 2. HTML Day 1 4 hours
 - a. Introduction
 - b. Document structure
 - c. Comments
 - d. Basic tags
 - e. Embedding content inline frames, hyperlinks, images
 - f. Lists
 - g. Divs and Spans
 - h. Attributes
 - i. Tables
 - j. Forms and form validations
- 3. CSS Day 1 3 hours
 - a. Introduction
 - b. Defining and applying styles
 - c. CSS Colors
 - d. Background and border
 - e. Selectors
 - f. Specificity and cascade
 - g. Text and fonts
 - h. Introduction to Box model
- 4. Bootstrap Day 2 3 hours
 - a. Introduction
 - b. Adding Bootstrap to a project
 - c. Typography & utilities
 - d. CSS Components
 - e. The Grid System
 - f. JavaScript Widgets
- 5. JavaScript Fundamentals Day 2 5 hours
 - a. Data types
 - b. Variables
 - c. Functions
 - d. Conditionals
 - e. Loops
 - f. Objects

JS, ES6, TS & ANGULAR TRAINING

- g. Literals
- h. Arrays
- i. Error handling using Try Catch
- j. Storage API
 - 01. Local Storage
 - 02. Session Storage

EXPERIENCED PARTICIPANTS

- 6. Advanced JavaScript Day 3 4 hours
 - a. Async JS
 - 01. AJAX & XHR
 - 02. Promises
 - 03. Fetch
 - 04. Async & Await
 - b. Scopes
 - c. Closures
 - d. Hoisting
 - e. CORS
 - f. JSONP
- 7. ES6 Day 3 1 hour
 - a. Let & Const
 - b. Template literals
 - c. Arrow functions
 - d. Default function parameters
 - e. Rest & Spread
 - f. Destructuring
 - g. Classes, constructors & inheritance
- 8. TypeScript Day 3 3 hours
 - a. Type system
 - b. Basic types
 - c. Interfaces
 - d. Classes & Inheritance
 - e. Functions
 - f. Enums
 - g. Modules
 - h. Namespaces
 - i. Decorators
- 9. Angular Days 4, 5, 6, 7
 - a. Introduction to Angular Day 4 4 hours
 - b. Architecture overview Day 4 1 hour
 - c. Components, Templates & Styles Day 4 3 hours
 - d. Data Binding Day 5 3 hours
 - e. Directives Day 5 3 hours
 - 01. Attribute directives

JS, ES6, TS & ANGULAR TRAINING

- 02. Structural directives
- 03. Custom directives
- f. Pipes Day 5 2 hours
 - 01. Built-in pipes
 - 02. Custom pipes
- g. Services & Dependency Injection Day 6 2 hours
- h. Forms & Validation Day 6 3 hours
 - 01. Template driven forms
 - 02. Reactive forms
- i. Building Single Page Apps using Routing Day 6 3 hours
- j. Reactive Programming using RxJS Observables Day 7 1 hour
- k. Client Server Communication (using HttpClient) Day 7 3 hours
- I. Angular Modules (ngModules) Day 7 1 hour
- m. Unit testing Angular applications Day 7 3 hours
- n. Best practices (All the days)