

# Syllabus

1. Introduction
2. Agenda
3. Node / NPM
4. Angular
  - a. Module
  - b. Component
  - c. Template
  - d. Metadata
  - e. Data Binding
  - f. Service
  - g. Directive
  - h. Dependency Injection
5. Survival JavaScript
  - a. Variable creation
  - b. Array operators
  - c. Template literals
  - d. Optional parameters
  - e. Default values
  - f. Arrow functions
  - g. Rest operator
  - h. Spread operator
  - i. Destructuring
  - j. async / await
  - k. Generator functions
  - l. Classes
  - m. Promises
  - n. Modules
6. TypeScript
  - a. Types and type inference
  - b. Interfaces
  - c. Functions
  - d. Classes
  - e. Modules
  - f. Type definitions
  - g. Troubleshooting
7. RxJS
  - a. Observables
  - b. Iterators
  - c. Operators
8. Angular CLI, Babel & Webpack
  - a. CLI commands
  - b. Compiling JavaScript
  - c. Using Webpack loaders
9. Components & Templates
  - a. Annotation
  - b. Classes & Constructors
  - c. Selector
  - d. Templates
10. Data binding
  - a. Events
  - b. Properties vs Attributes
  - c. Two-way data binding
11. AWS Static Site
  - a. Creating a static site
  - b. Push Angular to S3
  - c. Automating the deployment
12. Routing
  - a. Implementation
  - b. Routing from templates
  - c. Passing parameters
  - d. Routing from code
13. Forms
  - a. Diagnostics
  - b. Template driven forms
  - c. Submit
14. Services
  - a. Creating services
  - b. Injecting services
  - c. Ajax, JSON, and RxJS
15. Directives
  - a. Attribute Directives
  - b. Structural Directives
16. Pipes
  - a. Built-in Pipes
  - b. Custom Pipes
17. Angular Material Design
  - a. Installation
  - b. Using MD Components
18. Unit Testing
  - a. Jasmine
  - b. Testing components
  - c. Testing directives
  - d. Testing pipes