

Annexure A: Training Agenda of Angular & .Net Training and Certification Program

Henry Harvin® Angular & .Net Curriculum		
Module No.	Module Name	Sub-Module
Module 1	Introduction to Angular	<ul style="list-style-type: none"> • What is Angular? • Features of AngularJS and Angular AngularJS (vs) Angular • Steps to Setup for Local Development Environment • Executing the First Angularjs program using NodeJS and NPM • Executing the First Angularjs program using Visual Studio
Module 2	Displaying Data using Templates	<ul style="list-style-type: none"> • About Directives • Components Properties and Interpolation • Built-In Directive <ul style="list-style-type: none"> ○ ngIF ○ ngFor ○ ngSwitch • Creating a class for data (Model object) • Template Expressions • Working with Arrays • External HTML Template File
Module 3	Data Binding	<ul style="list-style-type: none"> • Binding properties and Interpolation • One-way Binding / Property Binding • Event Binding • Two-way Binding • Two-way binding with NgModel • Attribute Binding • Style and Class Binding
Module 4	Styles Binding In Component	<ul style="list-style-type: none"> • Style and Class Bindings • Built-In Directives - NgStyle & NgClass • Using Component Styles • Special selectors • Loading Styles into Component
Module 5	Advanced Component Features	<ul style="list-style-type: none"> • Revising what components are? • Components Lifecycle Hooks • Dynamic components using ngComponentOutlet

Module 6	Template Driven Forms	<ul style="list-style-type: none"> ● Introduction ● Create the component that controls the form ● Create a template with the initial form layout ● Bind data properties to each form input control with the ngModel two-way data binding syntax ● Add the name attribute to each form input control ● Add custom CSS to provide visual feedback ● Show and hide validation error messages ● Handle form submission with ngSubmit ● Disable the form's submit button until the form is valid ● Resetting the form
Module 7	Reactive Forms	<ul style="list-style-type: none"> ● Reactive Forms Introduction ● More Form Controls ● Form Control Properties ● SetValue and patch value ● Validating Form Elements ● Submitting and Resetting forms ● Observing and Reacting to Form Changes ● Using FormBuilder
Module 8	Pipes	<ul style="list-style-type: none"> ● Built-in Pipes ● Using parameters and chaining Pipes ● Custom Pipes ● Parameterized Custom Pipe ● Pipes and Change Detection ● Pure and Impure pipe
Module 9	Custom Directive	<ul style="list-style-type: none"> ● Custom Attribute Directive ● Using HostListener ● Using HostBinding ● Custom Validator Directive
Module 10	Dependency Injection	<ul style="list-style-type: none"> ● Understanding Dependency Injection ● Understanding DI in Angular Framework ● ReflectiveInjector ● Exploring Provider ● Types of Tokens ● Types of Dependencies ● Configuring DI using Providers ● Implementing DI in Angular
Module 11	Services In Angular	<ul style="list-style-type: none"> ● Building and Injection ● Services and Dependency Injection ● Custom Services ● Service using another Service ● Built-In \$http Service

		<ul style="list-style-type: none"> ● Promises and Observables ● Get Request
Module 12	Routing	<ul style="list-style-type: none"> ● Configuring and Navigating ● Parameterized routes ● Nested (or) Child Routes ● Routing Strategies ● Understanding Route Parameters ● Router Hooks
Module 13	Angular Modules	<ul style="list-style-type: none"> ● AppModule as Root Module ● Feature modules ● Lazy Loading a Module ● Shared Module ● Typescript concepts ● JavaScript concepts
Module 14	C# Language	<ul style="list-style-type: none"> ● CLR Execution Model ● Primitive Types ● Reference & Value Types ● Nullable Types ● Constants & Fields ● Properties, Methods, Events & Delegates. ● Generics ● Interfaces ● Working with Chars, Strings & Text ● Enums, Arrays. ● Assembly Loading & Reflection ● Serialization ● Asynchronous programming
Module 15	Errors & Exception Handling	<ul style="list-style-type: none"> ● The Idea Behind Exception ● Exceptions & Errors ● Types of Exception ● Control Flow in Exceptions ● Use of try, catch, finally, throw, and throws in Exception Handling. ● In-built and User Defined Exceptions
Module 16	Collections	<ul style="list-style-type: none"> ● Collection Classes ● List, Dictionary, Hashtable ● IEnumerable, IList, IQueryable
Module 17	Threading	<ul style="list-style-type: none"> ● Thread Basics ● Foreground, Background Threads ● Multithreading concepts ● Asynchronous Operations using threads

Module 18	New features from Angular 17/18	<ul style="list-style-type: none"> • Zoneless Applications • Route Redirects with Functions • TypeScript 4.7 Support • Latest ng-template API • Upgraded Debugging Tools • Hydration Support in CDK and Material • Unified Control State Change Events • Coalescing by Default
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Note: As per TNA (Training need analysis), the curriculum will also be customized (If Required)