

Certified Angular 9 Developer



Certified Angular 9 Developer

Angular has emerged as the most popular frontend JavaScript frameworks for developing web apps or single-page applications using HTML, CSS, and TypeScript. Angular is supported by Google and Angular 9, the latest version was launched on February 7th, 2020.

Angular 9 bring smaller bundle sizes, augmented performance, faster testing, better debugging and improvements in CSS class and style binding, type checking, build errors, build times and Internationalization. Angular 9 also, enables AOT on by default.

Why should one take this certification?

The certification not only assess and update your skills in Angular 9 but also is a proof of your knowledge and expertise in developing and managing Angular 9 based web apps or single-page applications.

The certification covers

- TypeScript and ESNext
- Angular 9 Decorators, Routing, Guards
- Angular 9 Dependency injection, Directives and Pipes
- MDB, Angular Material and Firebase

Who will benefit from taking this certification?

Angular 9 is the must have skill for web programmers, front end developer and professionals engaged in web development. Angular 9 certification is also apt for students who want to make a career in frontend web development and individuals who want to develop web apps or single-page applications

Test Details

- **Duration:** 60 minutes
- No. of questions: 50
- Maximum marks: 50, Passing marks: 25 (50%)

There is no negative marking in this module.

Fee Structure

Rs. 3,499/- (Excludes taxes)*

*Fees may change without prior notice, please refer <u>http://www.vskills.in</u> for updated fees

Table of Contents

1. Angular and SPA

- 1.1 Introduction to Single Page Applications (SPA)
- 1.2 What do we need Angular for
- 1.3 Setting up the Development Environment
- 1.4 Angular Application Architecture
- 1.5 First Angular App

2. TypeScript and ESNext

- 2.1 Module Introduction and Introduction to TypeScript
- 2.2 Setting up the environement to write TypeScript
- 2.3 Variable declarations (var, let, and const)
- 2.4 Types Primitives
- 2.5 Types Reference and Special Types
- 2.6 Operators Spread and Backticks
- 2.7 Operators Destructure and Rest
- 2.8 Classes
- 2.9 Interface
- 2.10 Arrow Functions
- 2.11 Modules
- 2.12 fetch
- 2.13 async/await

3. Decorators, @NgModule, Angular Modules and App Bootstrap Mechanism in Angular

- 3.1 Module Introduction and an overview of Angular Modules
- 3.2 What are decorators?
- 3.3 Angular Modules and the @NgModule Decorator
- 3.4 declarations
- 3.5 imports and exports
- 3.6 providers, bootstrap, and entryComponents
- 3.7 Angular Application Bootstrap Mechanism

4. @Component Decorator, Angular Components, Communication, and the Lifecycle Hooks

- 4.1 Module Introduction
- 4.2 Angular Components and the @Component Decorator
- 4.3 Creating an Angular Component using the Angular CLI and on StackBlitz
- 4.4 Component Decorator Metadata
- 4.5 View Encapsulation Emulated, ShadowDom, None

- 4.6 Data Binding String Interpolation {{ }}
- 4.7 Property Binding []
- 4.8 Event Binding ()
- 4.9 @Input and @Output Property Decorators
- 4.10 Two-way Data Binding [0]
- 4.11 Attribute Binding [attr.]
- 4.12 Class Binding [class.]
- 4.13 Style Bindings [style.]
- 4.14 Introduction to Lifecycle Hooks in Angular
- 4.15 Using Lifecycle Hooks in Angular
- 4.16 View Queries View Child, View Children, Content Child, Content Children
- 4.17 Change Detection Mechanism in Angular. ZoneJS, NgZones

5. Angular Routing, Guards

- 5.1 Introduction to Routing
- 5.2 Implementing Routing in an Angular App
- 5.3 Creating a User List. Setting the stage for Child Routing
- 5.4 Abstracting the user link to a separate component
- 5.5 Implementing Child Routes
- 5.6 Path Match and Route Types
- 5.7 Introduction to Route Guards in Angular
- 5.8 CanActivate and CanActivateChild Guards in Angular
- 5.9 CanDeactivate Guard in Angular
- 5.10 Prefetching Data for a Component using Resolve

6. <u>Dependency Injection (As a Pattern, As a Framework)</u>, Services, HTTP, Observables

- 6.1 Introduction to Section
- 6.2 DI as a Pattern, DI as a Framework and Types of Providers
- 6.3 Hierarchical Dependency Injection
- 6.4 Introduction to Services in Angular
- 6.5 GET data from a Rest API using HttpClient
- 6.6 CRUD Operations using HttpClient, HttpParams and HttpHeaders
- 6.7 Observables and Operators in Observables Map, Retry, Catch
- 6.8 Behavior Subject and Sharing Data using Behavior Subjects

7. Directives and Pipes in Angular

- 7.1 Introduction to Section
- 7.2 Introduction to Directives
- 7.3 Built in Structural Directives
- 7.4 Built in Attribute Directives
- 7.5 Building custom Attribute Directives
- 7.6 Building Custom Structural Directives
- 7.7 Introduction to Pipes in Angular

www.vskills.in

- 7.8 Using Built In Pipes
- 7.9 Creating Custom Pipes in Angular
- 7.10 Pure and Impure Pipes in Angular
- 7.11 Building Custom Decorators in Angular
- 7.12 Building a Custom Lifecycle Hook Class Logger Decorator
- 7.13 Building Custom Property Decorator in Angular

8. Forms in Angular

8.1 Introduction to Section

8.2 Types of Form Building Strategies in Angular

8.3 Creating Long Bootstrap forms quickly using VS Code using Emmet

8.4 Adding FormControl(s) to a Template Driven form using the ngModel directive

- 8.5 Getting the JavaScript Object Representation of a form using ngForm directive
- 8.6 Disabling the Submit Button on a Form using form's \$invalid flag
- 8.7 Getting the JavaScript Object Representation of a form in TypeScript Class
- 8.8 Adding Checkbox, Radio Buttons and Select List to your Template Driven Form

8.9 Creating Subsections in the form using NgModelGroup directive

8.10 Steps to implement a Reactive form in Angular

8.11 Quickly creating a Bootstrap form for our Reactive form using Emmet

8.12 Creating a Reactive form in the TypeScript class & connecting it to the template

8.13 Adding form Validations to a Reactive Form

8.14 Dynamically Adding or Removing FormControl(s) or FormGroup(s) using FormArray(s)

- 8.15 Adding Synchronous Custom Validations to your Reactive Form
- 8.16 Adding Async Custom Validations to your Reactive Form
- 8.17 Resetting the value of a form

9. <u>Using Third Party Libraries and Frameworks like MDB, Angular Material</u> & Firebase

- 9.1 Introduction to the Section
- 9.2 Creating an Angular CLI Project with SCSS as a base style
- 9.3 Introducing Material Design Bootstrap into your Angular CLI Project
- 9.4 Adding a Navbar in your header
- 9.5 Adding Material Design Buttons

9.6 Adding Cards

- 9.7 Using Material Design Dropdowns and Form Inputs
- 9.8 Introducing Angular Material into your Angular CLI Project on the top of MDB
- 9.9 Adding Radio Buttons, Slide Toggle, Slider, Progress Bar and Spinner
- 9.10 Introduction to Firebase
- 9.11 Creating an App using the Firebase Console
- 9.12 Setting up your Angular CLI Project to support Firebase
- 9.13 Interacting with Firebase Realtime Database using methods on AngularFireList
- 9.14 Adding and Reading Data from Realtime Database in Firebase
- 9.15 Updating and Deleting Data from Realtime Database in Firebase

Certifications

Accounting, Banking & Finance - Certified GSTProfessional

- Certified AML-KYC Compliance Officer - Certified Business Accountant
- Certified BASEL III Professional
- Certified GAAP Accounting Standards Professional
- Certified Treasury Markets Professional

> Big Data

- Certified Hadoop and Mapreduce Professional

Cloud Computing

- Certified Cloud Computing Professional

> Design

- Certified Interior Designer

> Digital Media

- Certified Social Media Marketing Professional
- Certified Inbound Marketing Professional
- Certified Digital Marketing Professional

▶ Foreign Trade

- Certified Export Import (Foreign Trade) Professional

>Health, Nutrition and Well Being - Certified Fitness Instructor

>Hospitality

- Certified Restaurant Team Member (Hospitality)

>Human Resources

- Certified HR Compensation Manager
- Certified HR Staffing Manager
- Certified Human Resources Manager
- Certified Performance Appraisal Manager

> Office Skills

- Certified Data Entry Operator
- Certified Office Administrator

Project Management

- Certified Master in Project Management
- Certified Scrum Specialist

▶ Real Estate

- Certified Real Estate Consultant

Marketing Certified Marketing Manager

> Quality

- Certified Six Sigma Green Belt Professional
- Certified Six Sigma Black Belt Professional
- Certified TQM Professional

>Logistics & Supply Chain Management

- Certified International Logistics Professional
- Certified Logistics & SCM Professional
- Certified Supply Chain Management Professional

>Legal

- Certified IPR & Legal Manager
- Certified Labour Law Analyst
- Certified Business Law Analyst
- Certified Corporate Law Analyst

>Information Technology

- Certified Angular JS Professional
- Certified Basic Network Support Professional
- Certified Business Intelligence Professional
- Certified Core Java Developer
- Certified E-commerce Professional
- Certified IT Support Professional
- Certified PHP Professional - Certified Selenium Professional

- Mobile Application Development - Certified Android Apps Developer
 - Certified iPhone Apps Developer

> Security

- Certified Ethical Hacking and Security Professional
- Certified Network Security Professional

≻Management

- Certified Corporate Governance Professional
- Certified Corporate Social Responsibility Professional
- Certified Leadership Skills Professional

>Life Skills

- Certified Business Communication Specialist
- Certified Public Relations Officer

> Media

- Certified Advertising Manager
- Certified Advertising Sales Professional

> Sales, BPO

- Certified Sales Manager
- Certified Telesales Executive

& many more job related certifications

Contact us at: V-Skills 011-473 44 723 or info@vskills.in www.vskills.in