

# On-Site NativeScript Training

Lead NativeScript Trainer: Alex Ziskind  
[alex@nuvius.com](mailto:alex@nuvius.com)

<https://nativescripting.com> | <http://www.nuvius.com>

+1-855-656-NUVI

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## Course: Introduction to NativeScript with Angular

**Course Number: NSNG-111**

**Duration: 3 days**

### Overview

NativeScripting's Introduction to NativeScript with Angular course teaches developers with zero NativeScript and Angular experience how to start from scratch and develop an application that will run on iOS and Android.

### Training Prerequisites

All attendees must have strong prior JavaScript and TypeScript experience. No prior NativeScript experience is necessary, but Angular experience is recommended.

### Training Materials

All attendees receive courseware and the latest/best NativeScript textbook as of the date of training.

### Software Needed on Each Student Machine

- Google Chrome
- Visual Studio Code
- Node.js installed

- Android tools set up and working
- If developing for iOS, a Mac is required with XCode installed and configured
- Other free software and lab files that Nuvius will specify

## Training Objectives

- Use industry best practices to architect an Angular mobile application with NativeScript
- Configure the development environment and set up the CLI
- Use industry standard tools for NativeScript development, including TypeScript
- Learning the Core NativeScript concepts
- Create, debug, and build a NativeScript with Angular application using the CLI approach

## Outline

### *Getting started*

- What is NativeScript?
- How NativeScript works
- Resources
- Documentation
- API
- App folder structure

### *Configuration*

- Setting up the environment
- Knowing your tools
- Using TypeScript

### *NativeScript CLI*

- What is the CLI
- How to use the CLI
- Commands
- Solving common problems

### *Core Concepts*

- Bootstrapping

- Application configuration
- App skeleton
- Components
- Component life cycle
- Error handling
- Application Life Cycle
- iOS UIApplicationDelegate
- Android Activity Events
- Project Status Bar utils

### *UI Basics*

- UI Hierarchy
- Pages vs Components
- Layouts
- Data-binding
- NgModel
- Event handling
- Gestures
- CSS Styling

### *Working with Data*

- Forms
- File system
- Remote server
- Local storage

### *Routing and Navigation*

- Declarative routing Approach
- Programmatic Routing Approach
- RouterExtensions
- Routing parameters

### *Tracing and Debugging*

- Debugging options
- Debugging commands
- Debugging with Visual Studio Code
- Debugging with Chrome

### *Animations*

- CSS Animations
- The animate method

- AnimationDefinition
- Curves
- Chaining with Promises

#### *Preparing for deployment*

- App Image Resources
- iOS Launch screen
- iOS App Icons
- iOS publishing
- Android Launch screen
- Android App Icons
- Android publishing

## Course: Advanced NativeScript with Angular

**Course Number: NSNG-142**

**Duration: 2 days**

### Overview

NativeScript's Advanced NativeScript with Angular course teaches developers with some NativeScript and Angular experience how to take advantage of the framework's more sophisticated features.

### Training Prerequisites

All attendees must have strong prior JavaScript and TypeScript experience and experience with NativeScript and Angular equivalent to NativeScript's Introduction to NativeScript with Angular class.

### Training Materials

All attendees receive courseware and the latest/best NativeScript textbook as of the date of training.

## Software Needed on Each Student Machine

- Google Chrome
- Visual Studio Code
- Node.js installed
- Android tools set up and working
- If developing for iOS, a Mac is required with XCode installed and configured
- All installation steps must have been completed as described in the installation section of [www.nativescript.org](http://www.nativescript.org) (<https://docs.nativescript.org/start/quick-setup>)
- Other free software and lab files that Nuvius will specify

## Training Objectives

- Use industry best practices to architect an Angular mobile application with NativeScript
- Manage the state of a modern mobile application using the latest technologies such as @ngrx
- Unit test all the parts of an Angular application including Modules, Components, Services, and Pipes
- Create, build, and package a NativeScript with Angular application using the CLI approach
- Develop dynamic Model-driven forms that are easier to unit test

## Outline

### *Getting started*

- tns-platform-declarations
- project dependencies
- high level app folder structure
- API Server
- Consuming the API
- Code Style and Tools

### *Application Management*

- Bootstrapping options
- Application configuration
- Auto injection
- Application internationalization
- Console visualization
- Application Logging
- Error handling
- Application Life Cycle
- iOS UIApplicationDelegate
- Android Activity Events
- Project Status Bar utils

### *Application State*

- Methodology
- Reactive Store and State
- Smart and Presentation Components
- Persisting State
- NgRx intro

### *Routing and Navigation*

- Combining Routing outlet options
- Lazy loading
- Navigation Directive

### *Debugging*

- Debugging with Visual Studio Code
- Debugging with Chrome
- Http Debugging

### *Testing*

- Configuring your project
- Creating tests
- Running tests
- Configuring the Karma server
- Continuous Integration

### *Preparing for deployment*

- AOT
- Configuring WebPack
- Bundling with WebPack

- Bundling Extra Assets
- Advanced WebPack

## Course: Comprehensive NativeScript with Angular

**Course Number: NSNG-144**

**Duration: 5 days**

### Overview

NativeScript's Comprehensive NativeScript with Angular bootcamp teaches students the basic and advanced skills they need to design, build, and test sophisticated native mobile applications that function well on iOS and Android operating systems.

### Training Prerequisites

All attendees must have substantial prior experience developing with JavaScript and TypeScript. If attendees will not have prior TypeScript experience, we would be delighted to precede this class with a one- or two-day intensive TypeScript primer.

### Training Materials

All attendees receive courseware and the latest/best NativeScript textbook as of the date of training.

### Software Needed on Each Student Machine

- Google Chrome
- Visual Studio Code
- Node.js installed
- Android tools set up and working
- If developing for iOS, a Mac is required with XCode installed and configured
- All installation steps must have been completed as described in the installation section of [www.nativescript.org](http://www.nativescript.org) (<https://docs.nativescript.org/start/quick-setup>)



- Other free software and lab files that Nuvius will specify

## Training Objectives

- Use industry best practices to architect an Angular mobile application with NativeScript
- Manage the state of a modern mobile application using the latest technologies such as @ngrx
- Understand how Angular is different than traditional web development frameworks
- Code using new ES6 and TypeScript language features
- Develop an application from scratch using NativeScript with Angular
- Explore Angular coding and architecture best practices
- Understand and use Angular Forms, Observables, Dependency Injection, and Routing
- Retrieve, update, and delete data using Angular's Http service
- Unit test all the parts of an Angular application including Modules, Components, Services, and Pipes
- Create, build, and deploy an Angular application using the CLI approach
- Develop dynamic Model-driven forms that are easier to unit test

## Outline

### *Getting started*

- tns-platform-declarations
- project dependencies
- high level app folder structure
- API Server
- Consuming the API
- Code Style and Tools

### *Application Management*

- Bootstrapping options
- Application configuration
- Auto injection
- Application internationalization
- Console visualization

- Application Logging
- Error handling
- Application Life Cycle
- iOS UIApplicationDelegate
- Android Activity Events
- Project Status Bar utils

### *Application State*

- Methodology
- Reactive Store and State
- Smart and Presentation Components
- Persisting State
- NgRx intro

### *Routing and Navigation*

- Declarative routing Approach
- Programmatic Routing Approach
- RouterExtensions
- Navigation Service
- NavigationOptions
- Route Guards
- Combining Routing outlet options
- Routing parameters
- Lazy loading
- Navigation Directive

### *Deeper UI*

- What is a frame?
- Using the Page
- View life cycle
- Dialogs
- Modals
- Multiple ListView templates
- FormattedString
- ActionBar
- Local notifications
- Controlling the keyboard
- Using icon fonts
- Lower cased and dashed components
- Programmatic components
- Custom components

- Platform specific declarations
- Screen size qualifiers
- Platform qualifiers
- Orientation qualifiers

#### *More UI Widgets*

- Placeholder
- Switch
- ListPicker
- DatePicker
- TimePicker
- ImagePicker
- Slider
- Repeater
- WebView
- HtmlView
- Progress
- SearchBar

#### *Hardware Access*

- Using Location
- Accessing the camera

#### *Tracing and Debugging*

- Setting up tracing
- Using tracing
- Debugging options
- Debugging commands
- Debugging with Visual Studio Code
- Debugging with Chrome
- Http Debugging

#### *Testing*

- Configuring your project
- Creating tests
- Running tests
- Configuring the Karma server
- Continuous Integration

### *Preparing for deployment*

- AOT
- Configuring WebPack
- Bundling with WebPack
- Bundling Extra Assets
- Advanced WebPack
- iOS Launch screen
- iOS App Icons
- iOS publishing
- Android Launch screen
- Android App Icons
- Android publishing

## Custom Training Services

NativeScripting flagship service is custom learning solutions. We have led the way in offering clients outside the box learning programs to help enterprise clients keep up with the demands of business and the speed of technology.

- Designed for teams of all sizes - Built with a deep-dive approach with a focus on immersive learning
- Adaptable to suit organizations with common challenges such as remote teams, limited resources, highly specialized requirements, etc.
- Tailored to specific business drivers with measurable objectives

Nearly 50% of the training courses offered by NativeScripting are tailored from traditional classroom content and learning modalities.

NativeScripting works with your organization to ensure we design a custom learning plan, regardless of the topic. With a network of Subject Matter Experts in all domains of IT you are guaranteed a high quality learning experience matched with skilled facilitators who possess real-world expertise.

## About NativeScripting

NativeScripting, a Nuvius, LLC. Subsidiary, was founded with the goal of delivering high quality online and private NativeScript training that rapidly achieves participants' goals. Our instructors have the pleasure of delivering classes at client sites on throughout the United States, multiple Canadian provinces, and elsewhere throughout

the world, as well as online. We pride ourselves on our instructors' real-world experience and ability to adapt the training to your audience and objectives.