**VUE.JS TRAINING COURSE OUTLINE**

**Duration: 8 Days = 32 Hours (4 Hours/Day)**

**Prerequisites:**

All attendees must be experienced JavaScript developers with a fairly advanced understanding of JavaScript, including prototypes and functions as first-class citizens.

**Software/Hardware :**

* + Windows 7 or later
  + Node Installer
  + 4GB RAM
  + Latest Browser : Chrome, IE, Firefox
  + Any preferred IDE (Sublime, VS Code, Notepad++ etc.)
  + Internet Connection
  + Permission to download and install libraries on participants’ machine

**Course Outline:**

**DAY I**

**ES 6**

* **Introduction to ES6 Features**
* **Template Literals**
* **Block Scope, Let, Constant Variables**
* **Rest, Spread Operators, Deconstruct**
* **ES6 Classes, Inheritance**
* **Arrow Functions**
* **ES6 modules, export, import**
* **ES6 Promise, resolve, catch, then**
* **ES7 async and await**

Module 1: Introduction to Vue.js

* **What is Vue.js**
* **Why Vue.js**
* **Quick tour of Vue-cli**
* **Hello World with Vue.js**
* **Anatomy of Hello world vue app**

**DAY II**

Module 2: Working with Template & view model

* **What is vue.js template**
* **What is viewmodel / vue instance?**
* **Template syntax**
  + **Interpolation**
  + **Directive**
  + **Filters**
  + **Shorthands**
* **Javascript expressions**
* **Computed properties**
* **Watchers**
* **Class and style bindings**
  + **HTML classes**
  + **Inline styles**
* **Conditional Rendering**
* **Iterative Rendering**

Module 3: Vue instance

* **Basic vue instance usage**
* **Multiple vue instances**
* **Vue instance Lifecycle**
* **Accessing data from outside vue instance**
* **Data and methods**
* **More about $el, $data and $refs**

**DAY III**

Module 4: Event handling

* **Introduction**
* **Listening to events**
* **Method Event handlers**
* **Event modifiers**
* **Key modifiers**

Module 5: Working with Forms and Two way binding

* **Introduction to two way binding via v-model**
* **Handling user input with HTML form controls**
* **Data binding**
* **.lazy, .number, .trim modifiers**
* **Submitting a form**

Module 6: Introduction to Components

* **What are components?**
* **Why components**
* **Hello World component**
* **Anatomy of a component**
* **Registering Components Locally and Globally**
* **Root Component**
* **Thinking in components**
* **Composing application as components**

**DAY IV**

Module 7: Passing data to components

* **Props, parent to child communication**
* **Custom events, child to parent**
* **Non parent child communication event emitter style using .emit, .on**

Module 8: Content distribution with slots

* **Compilation scope**
* **Single slot**
* **Named slot**
* **Scoped slot**

**DAY V**

Module 9: Dynamic components

* **Switching Multiple Components with Dynamic Components**
* **Dynamic Component Behavior**
* **Keeping Dynamic Components Alive**
* **Lifecycle hooks**

Module 10: Custom Directives

* **Introduction**
* **Directive hook functions**
* **Developing custom directive**
* **Passing values and arguments to custom directives**

Module 11: Mixins

* **Introduction**
* **Creating and using mixins**
* **Option merging**
* **Global mixin**

**DAY VI**

Module 12: Filters

* **Introduction**
* **Local filters**
* **Global filters**
* **Chaining filters**

Module 13: Remote communication with Vue.js

* **Using vue-resource to working with HTTP**
* **Fetch data**
* **Post data to server**
* **Request Response Interception**
* **Template URLs**

**DAY VII**

Module 14: Routing

* **Introduction**
* **Setting up vue-router**
* **Loading routes**
* **Routing modes**
* **Navigation with router links**
* **Styling active links**
* **Imperative navigation**
* **Route Parameters**
* **Setting up child or nested routes**
* **Named routes**
* **Query parameters**
* **Named router views**
* **Wildcard routes**
* **Route guards**
* **Single-Page-Application with Routing**

**DAY VIII**

Module 15: State management

* **Introduction**
* **Need for state management**
* **What is vuex**
* **Centralized store**
* **Understanding Getters**
* **Using Getters**
* **Mapping Getters to Properties**
* **Using Mutation**
* **Mapping Mutations**
* **Dispatching Actions**

**Overview of Vue 3.x features.**

**Overview of Nuxt.Js with SPA.**