# **MEAN stack Developer training for IQVIA, Chennai**

***MEAN*** *is a collection of JavaScript-based technologies — MongoDB, Express.js, AngularJS, and Node.js — used to develop web applications. From the client and server sides to databases, MEAN is a full-stack development toolkit. Because all components of the MEAN stack support programs are written in JavaScript, MEAN applications can be written in one language for both*[*server-side*](https://en.wikipedia.org/wiki/Server-side)*and*[*client-side*](https://en.wikipedia.org/wiki/Client-side)*execution environments.*

*Intention of this course is to facilitate trainees to learn MEAN stack which would help them to start working in the project.*

***Summary***

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| **Duration** | 17 days |
| **Hours** | 136hours (Eight hours per day) |
| **Mode of Delivery** | On-line |
| **Speciality** | ***Hands-on, real world samples and assignments*** |
| **Pre-requisite** | ***Trainees should have a desktop/laptop(preferably Windows Operating System with minimum of 4 GB RAM. Good internet connectivity is essential.*** |

***Schedule***

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| ***Day*** | ***Topic*** |
| ***Week - 1*** | |
| ***Day -1*** | **Introduction to Web application development** |
| **What is web and how it works ?** |
| **Architecture of a web application** |
| **Introduction to Web Design** |
| **Life cycle of web application development** |
| **Getting started with HTML** |
| **HTML tags** |
| **Hands-on** |
| **Assignment** |
| ***Day – 2*** | **Introduction to CSS** |
|  | **CSS selectors** |
|  | **CSS styles** |
|  | **Media Queries** |
|  | **Responsive web design** |
|  | **Hands-on** |
|  | **Assignment** |
| ***Day – 3*** | **Introduction to Java Script** |
|  | **Building blocks of Java Script – Variables, Datatypes,Loops,Conditional statements** |
|  | **DOM and Events** |
|  | **Functions and objects** |
|  | **Array’s,String and Date** |
|  | **Prototypes** |
|  | **Closure** |
|  | **Callbacks,promise,async and observable** |
|  | **Hands-on** |
|  | **Assignment** |
| ***Day – 4*** | **AJAX and JSON** |
|  | **Introduction to JQuery** |
|  | **Building blocks of JQuery** |
|  | **Deep dive into JQuery libraries** |
|  | **Hands-on** |
|  | **Assignment** |
| ***Day-5*** | **Introduction to Bootstrap** |
|  | **Usage of various tags associated with bootstrap** |
|  | **Hands-on** |
|  | **Assignment** |
| ***Day -6*** | **Introduction to GIT** |
|  | **GIT Commands** |
|  | **Web hosting using Heroku/XAMPP** |
|  | **Mini project using HTML/CSS/Java script/Bootstrap** |
|  | **Weekly assessment** |
| ***Week –2*** | |
| ***Day - 7*** | **Introduction to MEAN stack** |
|  | **Introduction to AngularJS (1.x)** |
| **Deep dive into AngularJS**   * **Environment Setup** * **MVC Architecture** * **Directives** * **Expressions** * **Controllers** |
| **Hands-on** |
| ***Day – 8*** | **Deep dive into AngularJS – Continued**   * **Filters** * **Tables** * **HTML DOM** * **Modules** * **Forms** * **Includes** * **AJAX** * **Views** |
| **Hands-on** |
| ***Day – 9*** | **Deep dive into AngularJS – Continued**   * **Views** * **Services** * **Dependency Injection** * **Custom Directives** * **Internalizations** |
| **Hands-on** |
| ***Day - 10*** | **Building sample application using Angular** |
| ***Day – 11*** | **Building sample application using Angular – Continued**  **Demonstration of the application** |
| ***Day – 12*** | **Node JS – Introduction** |
|  | **Node JS – Deep dive**   * **Environment Setup** * **First Application** * **REPL Terminal** * **Package Manager** * **Callbacks** * **Event Loop** * **Event Emitter** * **Buffers** * **Streams** * **File System** * **Global Objects** |
| **Hands-on** |
|  | **Weekly assessment** |
| ***Week –3*** | |
| ***Day – 13*** | **Express JS**   * **Express Framework** * **RESTFul API** * **Development of Rest API’s** |
| **Hands-on and Assignment** |
| ***Day – 14*** | **MongoDB**   * **Overview** * **Environment Setup** * **Data Modelling** * **Create Database** * **Drop Database** * **Create Collection** * **Drop Collection** * **Data Types** * **Insert Document** * **Query Document** * **Update Document** * **Delete Document** * **Sorting Records** * **Indexing** * **Aggregation** * **Node.js MongoDB** |
| **Hands-on and Assignment** |
| ***Day – 15*** | **Mini project**  **Design of End to End application using MEAN**  **Getting started with the development** |
| ***Day – 16*** | **Mini Project – continue** |
| ***Day – 17*** | **Mini Project demo**  **Final Assessment** |