**HR Department**

Training & Learning

***Introduction to Node.js***

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**Length:** 16 Hrs

**Course Overview:** Node.js is a fast and scalable server side framework built of the V8 chrome engine. It allows to build fast, reliable and scalable web applications. Node.js uses an event-driven, non-blocking I/O model that makes it very lightweight. This makes the platform perfect for real-tome applications that run on distributed devices.

**Target Audience:** This course is intended for anyone who is interested to learn node.js from scratch.

**Prerequisites:** intermediate JavaScript knowledge (JS objects, prototyping, ‘this’ keyword), typescript

**Content:**

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| **Day 1**   1. **Introduction**    * Introduction to Node.js &Installation    * esNext & Typescript 101    * NPM package manager    * Modules & Node.js with Typescript    * Working with file system    * Hands on 2. **Express**    * Hello express    * HTTP example    * REST API    * Hands on 3. **Events & Async**    * Middlewares    * Events    * Promises    * Async - Await    * Hands on | **Day 2**   1. **Persistence**     * MongoDB    * MySQL    * Hands on 2. **Socke.IO**     * Two-way communication    * Socket.IO    * Streams    * Building chat 3. **Testing & Debugging**     * Mocha    * Unitesting/BDD    * Hands on 4. **Deployment**    * PM2    * Containers    * Loggins and monitoring |