



Developing Node.js Web Applications

Duration: 2 Days **Course Code: NODEJS** **Delivery Method: Company Event**

Overview:

This Developing Node.js Web Applications course is for developers who wish to use JavaScript to create network applications. This course explains the event loop structure of Node.js applications and how to use structures like callbacks and promises to take advantage of it. It goes on to describe file handling, streams and error handling. It takes a hands-on approach to Node.js applications and includes details on NPM, database access and the Express framework.

Company Events

These events can be delivered exclusively for your company at our locations or yours, specifically for your delegates and your needs. The Company Events can be tailored or standard course deliveries.

Target Audience:

This course is aimed at JavaScript developers who wish to use Node.js to build fast, efficient and scalable applications.

Objectives:

- By the end of the course delegates should be able to:
 - Install Node.js, NPM and Express
 - Understand Node.js event-based programming
 - Create a web server and build web applications on it
 - Create and use modules
 - Build a web application using promises, buffers and streams
 - Improve an application with robust error handling
 - Handle routing with Express.js
 - Use Node.js to connect to a database
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Prerequisites:

An understanding of HTML and CSS selectors, as well as some knowledge of JavaScript is required. This knowledge can be obtained by attendance on the pre-requisite courses.

Content:

Developing Node.js Web Applications Training Course Course Contents - DAY 1

Course Introduction

- Administration and Course Materials
- Course Structure and Agenda
- Delegate and Trainer Introductions

Session 1: INTRODUCING NODE.JS

- What is Node.js?
- Asynchronous Processing
- Server-side JavaScript
- Modularity
- Why Use Node?

Session 2: GETTING STARTED

- Installing Node and NPM
- Running REPL
- Executing a File
- Command Line Input

Session 3: EVENTS AND CALLBACKS

- Callbacks
- Callbacks
- Promises
- Arrow Functions

Session 4: MODULES AND NPM

- Node.js Modules
 - Installing with NPM
 - Global and Local Installation
 - The package.json File
 - The require() Function
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Session 5: MANAGING DATA

- JSON and Node.js
- Using Buffers
- Streaming Data
- Accessing the File System

Session 6: ERROR HANDLING

- Callback Errors
- Application Specific Errors
- Using the verror Module
- Running with Nodemon

Session 7: THE EXPRESS FRAMEWORK

- Express Web Servers
- Request and Response Objects
- Configuring Routes
- Uploading Files

Session 8: DATABASE INTEGRATION

- Connecting to SQL Databases
- Connecting to MongoDB
- Transaction Handling

Further Information:

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 0113 242 5931

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