Developing Node.js Web Applications

Duration: 2 Days **Course Code: NODEJS**

Overview:

Developing Node.js Web Applications Course Overview
English - Please note this course is only available in English.
Nederlands - Let op: deze training is alleen in het Engels beschikbaar.
Français - Veuillez noter que ce cours est uniquement disponible en anglais.
This Developing Node.js Web Applications course is for developers who wish to use JavaScript to create network applications.

Target Audience:

Who will the Course Benefit?

Objectives:

- Course 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

Prerequisites:

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

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

Session 2: MODULES AND NPM

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

Session 3: EVENTS AND CALLBACKS

- Callbacks
- Promises
- Arrow Functions

Session 4: MANAGING DATA

- JSON and Node.js
- Using Buffers
- Streaming Data
- Accessing the File System Developing Node.js Web Applications Training Course Course Contents - DAY 2

Session 5: ERROR HANDLING

- Errors from Callbacks and Promises
- Application Specific Errors
- Using the verror Module
- Running with Nodemon

Session 6: THE EXPRESS FRAMEWORK

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

Session 7: DATABASE INTEGRATION

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

Session 8: API SECURITY

- Securing Passwords
- JSON Web Tokens
- Authenticating Endpoints

Further Information:

For More information, or to book your course, please call us on 0800/84.009

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www.globalknowledge.com/en-be/