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Program Overview:

This Node.js certification training enables you to build network applications quickly and efficiently using JavaScript. The course also helps developers understand and build web applications with JavaScript.

Program Features:

- > 36 hours of instructor-led online training
- > 16 quizzes at the end of chapters
- > Flexibility to choose classes
- > Two real-life, industry-based projects
- > Master Node.js, Socket.io, Express.js with MongoDB, and SQLite

Delivery Mode:

Live virtual classroom

Prerequisites:

The prerequisites to learn this Node.js training include basic knowledge of JavaScript and HTML.

Target Audience:

This Node.js certification training is ideal for technical project managers, technical leads, full-stack web developers, quality analysts, architects, and students or aspiring professionals who wish to lead web development projects.

Key Learning Outcomes:

By the end of this online Node.js training, you will be able to:

- > Install Node.js and execute scripts
- > Work with shrink-wrap and nmpvet
- > Build and implement HTTP server using APIs
- > Use buffers for binary data and streaming I/O from files and other resources
- > To work on Express.js with MongoDB and Sqlite
- > Work on Gulp, Grunt, Unit and E2e testing

Certification Details and Criteria:

- > Attend one complete LVC batch
- > Pass one course-end assessment project

Course Curriculum:

Lesson 01 - Introduction and Foundation

- > Introduction
- > The Node.js framework
- > Installing Node.js
- > Using Node.js to execute scripts

Lesson 02 - Node Projects

- > The Node Package Manager
- > Creating a project
- > The package.json configuration file
- > Global vs. local package installation

Lesson 03 - Working with shrink-wrap to lock the node modules versions

- > What is shrink-wrap
- > Working with npmvet
- > Working with outdated command
- > Install NPM Shrinkwrap

Lesson 04 - Working with asynchronous programming

- > Asynchronous basics
- > Callback functions
- > Working with Promises
- > Advance promises
- > Using Request module to make api calls
- > Asynchronous Commands

Lesson 05 - Building a HTTP Server with Node.JS using HTTP APIs

- > The HTTP protocol
- > Building an HTTP server
- > Rendering a response
- > Processing query strings
- > Processing posted data
- > Building a HTTP Server with Node.JS using HTTP APIs

Lesson 06 - File System

- > Synchronous vs. asynchronous I/O
- > Path and directory operations
- > __dirname and __filename
- > Asynchronous file reads and writes
- > File System & Security

Lesson 07 - Buffers, Streams, and Events

- > Using buffers for binary data
- > Flowing vs. non-flowing streams
- > Streaming I/O from files and other sources
- > Processing streams asynchronously
- > File System and Security

Lesson 08 - Multi-Processing in NodeJS

- > Working with Child Process API
- > Working with Cluster API for multi-core servers
- > Multi-Processing

Lesson 09 - ExpressJS

- > The model-view-controller pattern
- > Defining Jade templates
- > Configuring Express
- > Postman configuration
- > Using REST
- > JSON Data
- > Reading POST data
- > CRUD operations
- > Adding middleware
- > Expressjs

Lesson 10 - Building a HTTP Server with Node.JS using HTTP APIs

- > How Node.js connects to databases
- > RDBMS databases and NoSQL databases
- > Connecting to RDBMS and MongoDB databases
- > Performing CRUD operations
- > Express JS-CRUD

Lesson 11 - Socket.io, The Front-end, and A Chat App

- > Getting Started
- > Adding Socket.io To Your App
- > Exploring The Front-end
- > Sending Live Data Back & Forth
- > Creating The Front-end UI
- > Showing Messages In App
- > Working With Time
- > Timestamps
- > Show Message Time In Chat App
- > Chat application Project
- > SocketIO-Chat

Lesson 12 - Introduction to Task Managers with unit testing

- > Working with gulp
- > Working with grunt
- > Working with unit and E2E testing
- > gulp-grunt
- > Unit-testing-Jest

About Us:

Simplilearn is the world's #1 online bootcamp provider that enables learners through rigorous and highly specialized training. We focus on emerging technologies and processes that are transforming the digital world, at a fraction of the cost and time as traditional approaches. Over one million professionals and 2000 corporate training organizations have harnessed our award-winning programs to achieve their career and business goals.

For more information, please visit our website: <https://www.simplilearn.com/node-js-certification-training>.



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Simplilearn is the world's #1 online bootcamp for digital economy skills training focused on helping people acquire the skills they need to thrive in the digital economy. Simplilearn provides outcome-based online training across technologies and applications in Data Science, AI and Machine Learning, Cloud Computing, Cyber Security, Digital Marketing, DevOps, Project Management, and other critical digital disciplines.

Through individual courses, comprehensive certification programs, and partnerships with world-renowned universities, Simplilearn provides millions of professionals and thousands of corporate training organizations with the work-ready skills they need to excel in their careers. Based in San Francisco, CA, and Bangalore, India, Simplilearn has helped more than one million professionals and 2,000 companies across 150 countries get trained, acquire certifications, and reach their business and career goals. With over 1,000 live classes each month, real-world projects, and more, professionals learn by doing at Simplilearn. Ongoing industry recognition for the company includes the 2020 Aegis Graham Bell Award for Innovation in EdTech and the

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