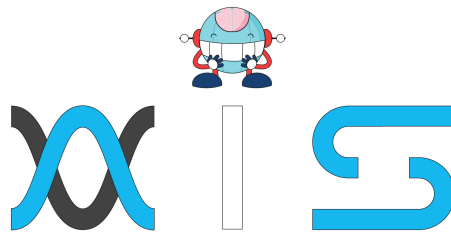




simplilearn



Node.js Training

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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 Working with outdated command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

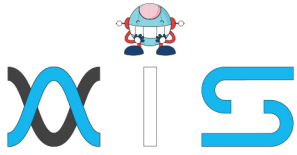
- > How Node.js connects to databases
- > RDBMS databases and NoSQL databases
- > Connecting to RDBMS and MongoDB databases
- > Performing CRUD operations
- > Express JS-CRUD

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
- 



AIS

With the rising demand in scalable technology, AIS provides tailored goal-setting based on your organization's needs and expectations. With products geared towards the growing needs of your organization's customers and employees, AIS has innovative and value-driven solutions.

Learning Partners



SAS Management, Inc.

Premiere training and consulting services company, SAS Management, Inc. has been in the industry for a decade. SAS Management, inc. focuses on creating value in every learning and consulting experience by providing the best possible output – whether in a virtual classroom setup, e-learning, or face-to-face. SAS Management, Inc. is the leading training and certification provider for ITIL, Project Management Professional, ISO certifications, PRINCE2, SDI Service Desk Analyst and Manager, Agile, and a host of many programs and courses.



Simplilearn

Tagged as the “World's #1 Online Bootcamp”, Simplilearn provides online education and in-house training for professional certification courses. Founded in 2010, Simplilearn offers more than 100 programs, helping professionals reach their learning potentials needed to work in the digital economy.

Technology Partner

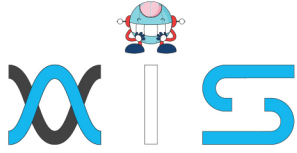


Freshworks

With over 40,000 customers, Freshworks is a business solutions software provider with products ranging from IT helpdesk and service desk, customer relationship management, live chat, marketing automation, phone system, and HR.

Partners & Affiliates





The program presented, as well as a wide range of programs are products of the partnership of AIS, SAS Management, Inc., and Simplilearn. With a common goal of providing the best practice of facilitating learning with an array of choices available in the online platform in this time of digitization.

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