



Node JS Training Curriculum

STRUCTURE



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Become a Full-Stack Web Developer with Comprehensive Node JS Training in Noida India

About Croma Campus:

Croma Campus Training & Development Private Limited is an education platform since 2010 providing rigorous industry-relevant programs designed and delivered in collaboration with world-class faculty and industry.

- Hands-On Live Projects
- Simulation Test Papers
- Industry Cases Studies
- 61,640+ Satisfied Learners
- 140+ Training Courses
- 100% Certification Passing Rate
- Live Instructor Classroom / Online Training
- 100% Placement Assistance

Course Objectives:

- Learn Installing Node JS and why server-side JavaScript is useful.
- Learn how Node JS is architected to allow high scalability with asynchronous code
- Learn to Create basic web applications with Node JS and Automate tasks with Gulp
- Build an HTTP server using the core modules in Node JS
- Use stream I/O to efficiently serve the web pages
- Create modules to organize the server
- Test the reliability of the application with unit tests
- Convert the application to an MVC framework using Express

Croma Campus Training Program Deliverables:

- **Session Recordings** - Original Class Room Voice & Video Recording
- **Training Material** - Soft Copy Handbooks
- **Assignments** | Multiple Hands-on Exercises
- **Test Papers** - We provide **Practice Test** as part of our course to help you prepare for the actual certification exam.
- **Live Case Studies**
- **Live Projects** - Hands-on exercises and Project work. You will work on real time industry-oriented projects and assignments for each module to practice.
- **Key focus on Hands-on exercises and Project work.** You will work on real time industry-oriented projects.
- Faculty with more than **10+ Years of Experience** in the Industry.
- **Technical Resume Designing & Job Assistance:** With more than 100+ Clients across the Globe and we help learners to get a good job in their respective field. We also help learners with resume preparation.
- **Interview Q&A**
- **About Croma Campus Training Certificate:** Croma Campus will provide you with an industry-recognized (Certified by **ISO 9001:2015 & E-Cell IIT Jodhpur**) course completion certificate which has lifelong validity.

- **How I Unlock my Croma Campus Certificate:** Attend Complete Batch & Submit at least One Completed Project.

Course Description:

Node.js is an Open Source server framework, completely free, and used by thousands of developers around the world. Node.js allows you to run JavaScript on the server. Node.js is a very powerful JavaScript-based framework/platform built on Google Chrome's JavaScript V8 Engine. It is used to develop I/O intensive web applications like video streaming sites, single-page applications, and other web applications.

Learning Node.js is a great way to get into backend web development, or expand your full-stack development practice. With Our comprehensive Node JS Training Program, you can learn the concepts and applications of this wildly useful JavaScript runtime.

Our NodeJS Course at Croma Campus is designed as per the Industrial trends with 100% Job Assistance. We have a team of highly experienced professionals' faculties with more than 12 years of experience in Node JS and other related Technologies.

Our faculty members are fully aware of industry requirements and ready to deliver full-fledged and industrial based Training to students across India. We provide our students with a perfect platform to learn and explore the subject from corporate trainers & industry experts.

Course Content:

Module 1: Introduction

- Audience
- Pre-requisites
- About Node
- Execute Node
- Features
- Who use Node
- Concepts
- Where to use
- Where not to use

Module 2: Environment Setup

- Text Editor
- NodeJs Run Time
- Download NodeJs
- Installation
- Executing

Module 3: First Application

- Creating a NodeJs Application
- Make a request to NodeJs Server

Module 4: REPL Terminal

- What is REPL?
- Starting REPL
- REPL Commands
- Stopping REPL

Module 5: Packager Manager (NPM)

- Installing Modules using NPM
- Global vs Local Installation
- Using packages.json
- Attributes of packages.json
- Uninstalling Module
- Updating Module
- Searching Module
- Create a Module

Module 6: Call backs Concept

- Using Props
- Default Props
- State and Props

Module 7: Event Loop

- Validating Props

Module 8: Event Emitter

- Set State
- Force Update
- Find DOM Node

Module 9: Buffers

- Lifecycle Methods

Module 10: Streams

- Simple
- Complex

Module 11: File System

- Simple
- Child

Module 12: Global Objects

- What is Refs
- Using Refs

Module 13: Utility Modules

- What is Keys
- Using Keys

Module 14: Web Modules

- Install a React Router
- Add a Router
- Create Components

Module 15: Express Framework

- What is Flux
- Flux Elements
- Flux Props

Module 16: Restful API

- Install REDUX
- Create Files and Folders
- Actions
- Reducers
- Store
- Root Component
- Other Components

Module 17: Scaling Application

- Install React CSS Transitions Group
- Add a CSS File
- Appear Animation
- Enter and Leave Animations

Module 18: MongoDB

- Connecting Node and MongoDB
- Database Creation, Drop
- Collection Operations
- Documents Operations

Module 19: Application

- Node and MongoDB Application