COURSE SYLLABUS

JavaScript Development Certificate (Self-Paced)

Learn how to create web apps with JavaScript, one of the most popular programming languages in the world. Build in-demand skills, including creating dynamic web applications with React and Node.js, working with APIs, and bringing in third-party frameworks and libraries.

> Group classes (Live Online) and onsite training are available for this course. For more information, email corporate@nobledesktop.com or visit: https://www.nobledesktop.com/certificates/javascript-development-self-paced



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Course Outline

This package includes these courses

- JavaScript Programming Bootcamp (Self-Paced) (120 Hours)
- JavaScript Development with Node, Express, & MongoDB (Self-Paced) (96 Hours)
- React Development Bootcamp (Self-Paced) (96 Hours)
- Entering the Web Development Industry (Self-Paced) (24 Hours)

Attend the SQL Bootcamp for free as part of this certificate. Choose your date after you register for the program.

SQL Course Online (Self-Paced)

JavaScript Programming Bootcamp (Self-Paced)

Get a strong grasp on the fundamentals of JavaScript programming so you can build interactive web applications. This hands-on course walks through key programming concepts, DOM manipulation, APIs, and object-oriented programming.

- Pick up JavaScript fundamentals, including variables, conditional logic, loops, and arrays.
- Shape the DOM by dynamically updating content, handling events, and adjusting CSS.
- Work with functions, callbacks, and arrow functions to write cleaner, more efficient code.
- Tap into JavaScript's built-in array and string methods for processing and organizing data.
- Pull in and display real-time data using APIs, JSON parsing, and asynchronous programming.
- Dig into object-oriented programming (OOP) principles to create reusable, scalable code.

JavaScript Development with Node, Express, & MongoDB (Self-Paced)

Learn how to create and host full-stack web applications using JavaScript along with Node.js, Express, and MongoDB. This

course covers back-end development, API creation, and database management for today's web applications.

- Work with Node.js to build server-side applications, handle file execution, and manage input/output operations.
- Use npm (Node Package Manager) to install and keep track of dependencies for scalable projects.
- Develop RESTful APIs with Express.js, putting together efficient routing and middleware functions.
- Set up and configure MongoDB to store, query, and manage structured data.
- Put authentication and security measures in place for safe database connections.
- Fine-tune application performance through advanced query filtering, pagination, and data population.

React Development Bootcamp (Self-Paced)

Learn how to create dynamic, interactive web applications using React and Node.js. This course walks through the core concepts of React, state management, API integration, and cloud deployment for full-stack development.

- Get a handle on React fundamentals, including components, props, state, and hooks.
- Use React Router to manage navigation and put together seamless single-page applications.
- Bring in databases and APIs to build fully functional, data-driven applications.
- Set up CRUD operations to manage and shape application data.
- Deploy React applications to the cloud through AWS and alternate deployment stacks.
- Look into advanced topics like AI integration and mobile development with React.

Entering the Web Development Industry (Self-Paced)

Build the skills and know-how needed to land a job as a web developer. This course covers portfolio development, interview preparation, and networking strategies to help you break into the tech industry.

- Put together a professional web development portfolio that highlights your skills and projects.
- Practice working through coding challenges and algorithms that come up often in technical interviews.
- Shape a networking strategy for connecting with tech recruiters and industry professionals.
- Learn how to present your skills and experience clearly and effectively during job interviews.
- Get a real feel for the day-to-day responsibilities and expectations placed on web developers.
- Prepare for actual job applications through hands-on workshops and expert guidance.