# PROFESSIONAL
# TECHELEARN
## IT TRAINING HANDBOOK

## REACTJS
## CERTIFICATION COURSE

# ReactJS Certification Course

**"Master Front-End Development with ReactJS"**

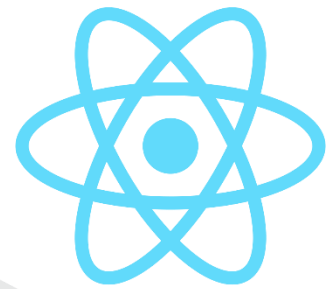Unlock the power of **ReactJS**—the most popular JavaScript library for building fast, dynamic, and responsive user interfaces. Our **ReactJS Certification Course** at **TECHELEARN** provides you with all the tools and knowledge needed to create modern web applications that deliver high performance and an enhanced user experience.

As businesses increasingly demand dynamic, interactive, and real-time applications, ReactJS has become the go-to choose for front-end developers worldwide. With its component-based architecture, virtual DOM, and seamless integration with other libraries and frameworks, ReactJS enables developers to build efficient and scalable applications that perform exceptionally well on both desktop and mobile platforms.

## Why ReactJS?

ReactJS is more than just a JavaScript library—it's a game-changer in front-end development. With its ability to create single-page applications (SPAs) and its vast ecosystem, React has rapidly grown into one of the most widely adopted technologies for building user interfaces.

- **Component-Based Architecture**: React's modular and reusable components

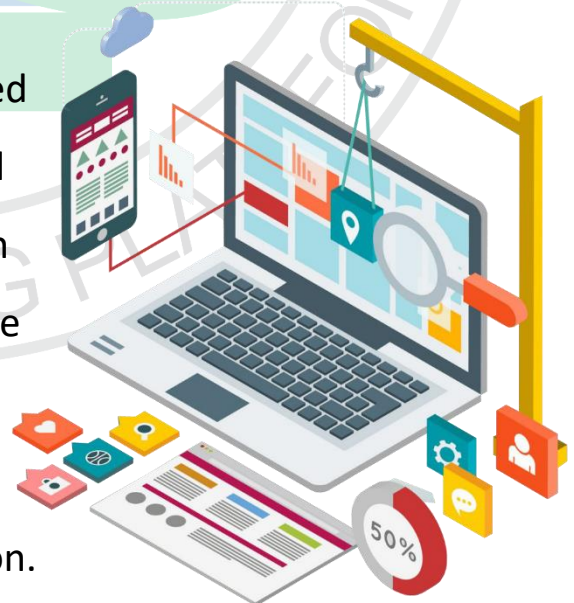streamline development and make it easy to maintain large-scale applications.

- **Fast and Efficient**: React uses a virtual DOM to optimize updates and minimize re-renders, making your applications lightning-fast.

- **Declarative Syntax**: With React's declarative syntax, you can describe your UI in simple, easy-to-read code that simplifies debugging and enhances maintainability.

- **Strong Ecosystem**: React's ecosystem includes libraries such as **React Router**, **Redux**, **Next.js**, and **React Native**, enabling full-stack and mobile development.

- **Job Market Demand**: ReactJS developers are in high demand as businesses seek to build interactive, user-friendly applications across industries.

## What Will You Learn?

Our **ReactJS Certification Course** is designed to provide both beginners and experienced developers with comprehensive training on ReactJS. You'll dive into everything from the fundamentals of components to advanced techniques for state management and performance optimization.

**Core Areas of Learning:**

1. **Introduction to ReactJS**:

   o What is ReactJS and why it's popular in front-end development

   o Setting up the ReactJS environment using **create-react-app**

   o Overview of JSX and the React virtual DOM

2. **ReactJS Components and JSX**:

   o Understanding React components and how to build them using JSX

   o Class components vs. functional components

   o Working with props and state in ReactJS

   o Handling events and user input

3. **ReactJS Lifecycle Methods**:

   o Understanding the component lifecycle and lifecycle methods (e.g., componentDidMount, componentWillUnmount)

   o Managing component state effectively

   o Using hooks (useState, useEffect) to handle side effects and state in functional components

4. **React Router**:

   o Routing in ReactJS for creating single-page applications (SPAs)

- o Configuring routes and navigation with **React Router**
- o Dynamic routing and handling route parameters

5. **State Management with Redux**:

- o Introduction to state management with Redux
- o Actions, reducers, and the Redux store
- o Connecting Redux with React components
- o Using **Redux Thunk** for handling asynchronous actions

6. **Working with Forms in ReactJS**:

- o Handling form inputs and user submissions
- o Controlled vs uncontrolled components
- o Validating and submitting forms in ReactJS applications

7. **ReactJS Performance Optimization**:

- o Techniques for optimizing ReactJS applications
- o Code splitting, lazy loading, and memoization
- o Optimizing rendering performance using **React.memo** and **useMemo**

8. **Building Real-World Applications**:

- o Developing a complete web application using ReactJS
- o Working with APIs and fetching data using **Axios** and **Fetch API**

- o Integrating third-party libraries and managing application state

9. **Testing React Applications**:

   - o Introduction to testing in ReactJS
   - o Unit testing with **Jest** and **Enzyme**
   - o Integration testing and writing test cases for components

10. **Deploying React Applications**:

    - o Deploying React applications to production on platforms like **Netlify**, **Vercel**, or **AWS**
    - o Continuous Integration and Continuous Deployment (CI/CD) practices
    - o Setting up a ReactJS app for scalability

11. **React Native for Mobile Development** (Optional Module):

    - o Introduction to **React Native** for building cross-platform mobile applications
    - o Setting up a React Native environment and building your first app
    - o Navigating mobile development with

**Course Highlights**

- **Comprehensive Curriculum**: Learn ReactJS from the ground up with a

structured, in-depth course designed for beginners and experienced developers alike.

- **Real-World Projects**: Build real-world applications and projects that you can showcase to future employers.

- **Certification**: Receive a globally recognized **ReactJS Certification** upon course completion to validate your skills and boost your career.

- **Expert Instructors**: Learn from industry professionals with years of experience in ReactJS development.

- **Flexible Learning**: Access the course material anytime, anywhere, and learn at your own pace.

- **Career Support**: Get resume building assistance, interview preparation, and job placement support to land your dream job in ReactJS development.

## Course Modules

Our **ReactJS Certification Course** is structured into comprehensive modules, each focusing on specific aspects of ReactJS development.

1. **Module 1: Introduction to ReactJS and JSX**

2. **Module 2: ReactJS Components and JSX**

3. **Module 3: ReactJS Lifecycle Methods**

4. **Module 4: React Router for Navigation**

5. **Module 5: State Management with Redux**

6. **Module 6: Handling Forms in ReactJS**

7. **Module 7: Performance Optimization in ReactJS**

8. **Module 8: Building Real-World React Applications**

9. **Module 9: Testing and Debugging React Applications**

10. **Module 10: Deploying React Applications**

11. **Module 11: Introduction to React Native (Optional)**

## Who Should Take This Course?

This course is ideal for:

- **Front-End Developers** looking to master ReactJS for building dynamic web applications.

- **JavaScript Developers** who want to expand their skills into modern front-end frameworks.

- **Web Developers** aspiring to become proficient in building interactive and real-time user interfaces.

- **Full Stack Developers** interested in integrating ReactJS with back-end technologies.

- **Beginner Developers** eager to start their journey with one of the most popular JavaScript libraries.

| Format Detail | Description |
|---|---|
| **Duration** | 3 Months Training + 1 Month Practice |
| **Learning Approach** | 30% Theory + 70% Practical |
| **Assessment** | 90-minute certification exam with 60 MCQs |
| **Passing Score** | 70% |
| **Certification Criteria** | Successful project submission + exam pass |

## Why Choose TECHELEARN?

- **Expert-Led Training**: Learn from experienced instructors with hands-on experience in ReactJS and real-world applications.

- **Up-to-Date Curriculum**: Stay current with the latest features and best practices in ReactJS development.

- **Global Certification**: Gain a certification that's recognized worldwide and can help you land lucrative ReactJS development opportunities.

- **Hands-On Learning**: Work on real projects that make your learning experience interactive and impactful.

- **Flexible Online Learning**: Learn at your own pace, anytime and anywhere, with easy-to-access course materials.

## 👦🏫 Training Modes

- 🗓️ **Live Instructor-Led Online Training**

- 🖥️ **Self-Paced Learning + Assignments**

- 👦💼 **Corporate On-Demand Training Workshops**

- 🔁 **Hybrid Model for Flexibility & Impact**

📁 Includes: Source Code, Assignments, Quizzes, Final Capstone Project & Certificate Exam

🎁 **Bonus Add-ons**

✔ GitHub Portfolio Setup

✔ Resume & LinkedIn Optimization

✔ Interview Preparation Sessions

✔ Lifetime Access to Developer Community

🌐 **Partner with TECHELEARN – Upskill Your Team**

TECHELEARN offers customized **ReactJS** training for businesses.

📌 **Talk to Our Enterprise Team**

📌 **Request a Tailored Group Training Plan**

🎯 **Get Started Journey Today**

Join **11,000+** learners who trust **TECHELEARN** for career-ready skills.

🔥 **ReactJS** skills are in high demand. Don't just learn—**Master it with TECHELEARN**.

# GET IN TOUCH

- *Personalized Support: Whether you're seeking technical assistance or career guidance, we offer personalized, professional support.*

- *Collaborate with Us: We partner with educational institutions, businesses, and experts to offer training that meets industry needs.*

## 💡 JOIN US IN THIS EXCITING JOURNEY!

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