

REACT FOUNDATIONS

Course Code: 840204

Learn to build dynamic user interfaces with React in our comprehensive foundation course.

React Foundation offers a thorough introduction to React, a widely-used JavaScript library for building user interfaces. This course covers essential and advanced topics, including component-based architecture, state management with hooks, and styling techniques. Participants will learn to set up a React development environment, create reusable components, manage data flow, and handle side effects with the useEffect hook.

By the end of the course, you will learn to construct JSX elements, implement prop patterns, manage state, and debug React applications effectively. You will be equipped to build high-performance, scalable, and maintainable web applications.

This course includes hands-on practice through labs and exercises, reinforcing the concepts covered in the lectures - a balanced mix of theoretical knowledge and practical application, ensuring a comprehensive learning experience.

What You'll Learn

- Set up a React development environment and create an initial application structure.
- Construct JSX elements to build React component structures and handle dynamic content.
- Build reusable React components applying composition patterns.
- Implement prop patterns to pass data and event handlers between components.
- Use state hooks to manage component data and handle user interactions.
- Integrate data flow patterns to manage component communication and state sharing.
- Implement container and presentational component patterns to organize React applications effectively.
- Apply styling using CSS modules and styling organization patterns.
- Use the useEffect hook to manage side effects and component lifecycle needs.
- Build form interfaces using both controlled and uncontrolled form patterns.
- Use React Developer Tools to debug component issues and analyze application performance.

Who Needs to Attend

- Front-End Developers
- Web Developers
- Software Engineers
- Technical professionals

Prerequisites

This is an intermediate level course for those looking to expand their skill set and master REACT. Learners should have proficiency in JavaScript, HTML, and CSS.

Fundamentals of Javascript

skillsoft* global knowledge,..

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VIRTUAL CLASSROOM LIVE

\$1,950 CAD

2 Day

Virtual Classroom Live Outline

1. Introduction to React

- What is React and its history
 - □ Definition and differentiation
 □
- Virtual DOM
 - □ Definition of the virtual DOM

 - My this matters for modern web apps
- React Development Setup
 - □ Development environment setup
 - □ Quick start with Create React App
 - □ Development tools associated with React (React Developer Tools)
- Project Structure

 - ∏ Folder structure: Component organization and file name conventions

2. JSX

- Getting Started

 - □ Understanding the relationship between files
- Fundamentals

 - Rules of JSX (parent element, closing tags)
- Writing JSX

 - Adding JavaScript expressions with {}

- Exploring JSX use cases
- 3. React Components
 - Component Basics
 - More about React Components

 - Mandling user interactions in components
 - Component Composition
 - ∇ Putting components in other components
- 4. Props
 - Prop basics

 - □ Passing data to components

 - 🛚 Rendering a component's props
 - Passing props from component to component
 - Dynamic rendering with props
 - More complex prop patterns
 - Pass an event handler as a prop
 - Receive an event handler as a prop
- 5. State and Events
 - Understanding State

 - M When not to use state
 - useState Hook

 - Multiple state values

Brief recap of content covered in Day 1, focusing on creating components and state

- 1. Component Patterns
 - Component Architecture

 - Rendering presentational components in containers
 - React Data Flow

 - Sibling/Sibling communication
 - □ Understanding prop drilling
 - Lifting state up as a solution
- 2. Styling in React
 - Regular CSS with className
 - CSS modules basics
 - Styling organization
 - Component-specific styling
- 3. Effects and Lifecycle
 - · Working with Effects

 - How to write cleanup functions
 - Lifecycles
- 4. Forms
 - Form Fundamentals

 - React's two approaches: Controlled vs Uncontrolled
 - Uncontrolled Forms
 - □ useRef hook with forms
 □
 - Accessing input values

 - M Handling submit events

 - □ Use cases for uncontrolled forms
 - Controlled Forms
 - Basic form elements
 - □ useState with single inputs
 - Managing multiple form fields

- Basic validation
- Success/error states
- 5. Debugging React Applications
 - React Developer Tools
 - Debugging React Applications

Jun 16 - 17, 2025 | 8:30 AM - 4:30 PM EDT

Jul 17 - 18, 2025 | 8:30 AM - 4:30 PM EDT

Aug 21 - 22, 2025 | 8:30 AM - 4:30 PM EDT

Sep 29 - 30, 2025 | 8:30 AM - 4:30 PM EDT

Oct 27 - 28, 2025 | 8:30 AM - 4:30 PM EDT

Dec 4 - 5, 2025 | 8:30 AM - 4:30 PM EST

Jan 12 - 13, 2026 | 8:30 AM - 4:30 PM EST



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PRIVATE GROUP TRAINING

2 Day

Visit us at www.globalknowledge.com or call us at 1-866-716-6688.

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