

React Mastery

Module 1 – JSX & Components

Component composition && Props & children && Keys & rendering patterns

Module 2 – State & Events

Controlled forms && Handling events && Derived state pitfalls

Module 3 – Effects & Data

useEffect timing && Cleanup functions && Data fetching patterns

Module 4 – Lists & Conditional Rendering

Rendering lists && Conditional UI && Empty & error states

Module 5 – Advanced Hooks

useMemo && useCallback && useRef && Custom hooks

Module 6 – Context & Performance

Context providers && Selectors && Avoiding unnecessary re-renders

Module 7 – Routing Fundamentals

Nested routes && Loaders && Actions (React Router v6.4+)

Module 8 – State Management Tools

Redux Toolkit basics && Zustand selection && RTK Query for data fetching

Module 9 – Accessibility & User Experience

ARIA roles && Focus management && Keyboard navigation

Module 10 – Testing & Deployment

React Testing Library && Mock Service Worker (MSW) && CI/CD builds && Deployment best practices