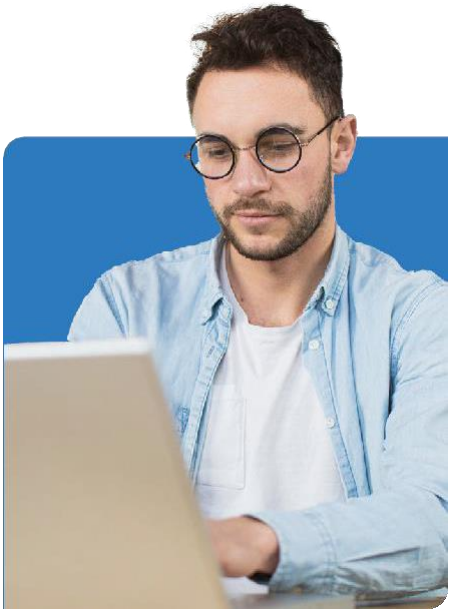
ThriveDX™

React Essentials & Advance

TDXFSF-101



ThriveDX React Essentials & Advance

Time Commitment
5 days (total of 40 hours / 8 hours per day)

Skill Level
Professional Level

Course Category
Full Stack-Front-end Development

This comprehensive 40-hour course equips you with the knowledge and skills to build dynamic and interactive user interfaces using ReactJS. We'll cover the fundamentals of React, explore advanced concepts, and integrate essential tools to create robust web applications.

Objectives

By the end of this course, you'll be able to:

- Build reusable and maintainable React components
- Manage component state effectively
- Implement efficient data flow patterns
- Style your applications with Styled Components
- Integrate routing for navigation purposes
- Write unit tests to ensure code quality

Prerequisites

- Solid understanding of HTML, CSS, and JavaScript (including ES6+)
- Basic familiarity with the command line

Program Structure

MODULE 01: React JS. Introduction

- React overview
- JSX, React DOM & vite
- Project setup with pnpm create vite

MODULE 02: React Components Basic 1

- Structure
- The render method
- Function components
- Props
- Conditional rendering
- Hands on exercise

MODULE 03: Implementing CSS with Styled Components

- Motivation
- Inline styling vs global styles vs css-injs
- Sass/Less vs Styled Components
- Basic Syntax and examples
- Styling props
- Extending styles
- Hands on exercises

MODULE 04 – Use State - React Components Basics 2

- Managing component state in Function components
- Handling events
- Rendering tree - Virtual dom diff algorithm behaviour
- Hands on exercise

MODULE 05: Use Effect Component Lifecycle

- Overview
- Mounting and unmounting components
- Updating props
- Other phases usage
- Hands on exercise - porting an external lib using lifecycle methods

MODULE 06: Lifting up state

- Parent / child relationship
- Unidirectional data flow
- Updating nested components
- Rendering Collections and lists
- Hands on exercises - filtering lists and master details

MODULE 07: Routing with React Router 6

- Overview
- Routing Basics
- Router, Route & Link
- Histories
- Redirects
- Route parameters
- Query String Parameters

MODULE 08: Unit Testing with Jest

- TDD intro
- Unit testing tools overview – test runners, assertion libraries & utilities
- Jest features
- Installation & setup
- Matchers API
- Async tests
- Mocking
- Code coverage

The ThriveDX Advantage

1 Handcrafted Training Programs

2 State-Of-The-Art Learning Materials

3 Israel's Premier Training Center

4 Fueled by Industry Leading Experts

5 Over 20 Years of Proven IT Education Success