

Introduction to React | Learning React Essentials (TTSREACT2)

Modality: Virtual Classroom

Duration: 5 Days

SUBSCRIPTION: No

About this course:

Introduction to React | Learning React Essentials is a five-day, introductory-level course geared for newer web developers who need to get up and running with productive, practical React web framework and library capabilities right away.

Using the React framework solves common problems developers face when building complex apps, and also makes building the visuals for such apps much, much easier. What React *isn't*, though, is beginner-friendly and easily approachable, especially for web developers who might have less hands-on experience on the job. This course provides students with a comprehensive hands-on guide to build maintainable, high-performing web application user interfaces using the React JavaScript library. Students will understand the fundamentals of React and how to use it to build really performant (and awesome) applications.

The average salary of a React Js Developer is **\$112,250** per year.

Course Objective:

Working within in an engaging, hands-on learning environment, attendees will learn to:

- Build your first React app
- Create components to define parts of your UI
- Combine components into other components to build more complex UIs
- Use JSX to specify visuals without writing full-fledged JavaScript
- Deal with maintaining state
- Work with React's way of styling content
- Make sense of the mysterious component lifecycle
- Build multi-page apps using routing and views
- Optimize your React workflow using tools such as Node, Babel, webpack, and others

Course Topics: This is a high-level list of the course topics covered in this training. Please see the detailed Course Agenda with session details, lessons and labs listed below.

- Introducing React
- Building Your First React App
- Components in React
- Styling in React
- Creating Complex Components
- Transferring Properties (Props)
- Meet JSX—Again!

- Dealing with State
- Going from Data to UI
- Working with Events
- The Component Lifecycle
- Accessing DOM Elements
- Creating a Single-Page App Using React Router
- Building a Todo List App
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- Setting Up Your React Development Environment

Audience:

- This is an **introductory-/ gentle-intro-level** React development course, designed for basic-level web developers that need to further extend their skills in modern web development. In order to be successful in this class.

Prerequisite:

- Attendees are required to have current, hands-on experience in developing basic web applications, and be versed in HTML5, CSS3 and JavaScript essentials.

Course Outline:

Module 1: Introducing React

- Old School Multi-Page Design
- New School Single-Page Apps
- Meet React
- Automatic UI State Management

Module 2: Building Your First React App

- Dealing with JSX
- Getting Your React On
- Displaying Your Name
- It's All Still Familiar

Module 3: Components in React

- A Quick Review of Functions
- Changing How We Deal with the UI
- Meet the React Component
- Creating a Hello, World! Component
- Specifying Properties
- Dealing with Children

Module ?4: Styling in React

- Displaying Some Vowels

- Styling React Content Using CSS
- Styling Content the React Way
- Creating a Style Object
- Actually Styling Our Content
- You Can Omit the “px” Suffix
- Making the Background Color Customizable

Module 5: Creating Complex Components

- From Visuals to Components
- Creating the Components
- The Card Component
- The Square Component
- The Label Component
- Passing Properties, Again!
- Why Component Composability Rocks
- Conclusion

Module 6: Transferring Properties (Props)

- Problem Overview
- Detailed Look at the Problem
- Meet the Spread Operator
- Properly Transferring Properties
- Conclusion

Module 7: Meet JSX—Again!

- What Happens with JSX?
- JSX Quirks to Remember
- You Can Only Return A Single Root Node
- You Can’t Specify CSS Inline
- Reserved Keywords and className
- Capitalization, HTML Elements, and Components
- Your JSX Can Be Anywhere
- Conclusion

Module 8: Dealing with State

- Using State
- Getting Our Counter On
- Optional: The Full Code

Module 9: Going from Data to UI

- The Example
- Your JSX Can Be Anywhere
- Dealing with Arrays in the Context of JSX

Module 10: Working with Events

- Listening and Reacting to Events
- Starting Point
- Making the Button Click Do Something
- Event Properties
- Doing Stuff With Event Properties
- More Eventing Shenanigans
- Listening to Regular DOM Events
- The Meaning of this Inside the Event Handler
- React...Why? Why?!

Module 11: The Component Lifecycle

- Meet the Lifecycle Methods
- See the Lifecycle Methods in Action
- The Initial Rendering Phase
- The Updating Phase
- The Unmounting Phase
- Conclusion

Module 12: Accessing DOM Elements

- Meet Refs

Module 13: Creating a Single-Page App Using React Router

- The Example
- Building the App
- Displaying the Initial Frame
- Displaying the Home Page
- Interim Cleanup Time
- Displaying the Home Page Correctly
- Creating the Navigation Links
- Adding the Stuff and Contact Views
- Creating Active Links

Module 14: Building a Todo List App

- Getting Started
- Creating the UI
- Creating the Functionality
- Initializing our State Object
- Handling the Form Submit
- Populating Our State
- Displaying the Tasks
- Adding the Finishing Touches

Module 15: Setting Up Your React Development Environment

- Meet the Tools
- It Is Environment Setup Time!
- Setting up our Initial Project Structure
- Installing and Initializing Node.js
- Installing the React Dependencies
- Adding our JSX File
- Going from JSX to JavaScript
- Building and Testing Our App