

JavaScript & TypeScript: ES6 & OOP Fundamentals

Learn to write modern JavaScript with ES6 and apply object-oriented programming concepts using TypeScript.

2

MODULES

24

TOPICS

COURSE OVERVIEW

This course covers new features introduced in ES6, including variable declarations with `let` and `const`, arrow functions, destructuring, the spread operator, rest and default parameters, and classes. It then introduces TypeScript, comparing it with JavaScript and covering installation and setup. Object-oriented programming in TypeScript is explored through classes, class properties, methods, access modifiers, constructors, getters and setters, static members and inheritance. The course also covers interfaces, modules and namespaces in TypeScript.

WHO THIS COURSE IS FOR

JavaScript Developers

TypeScript Developers

Front-End Developers

Software Engineers

Web Developers

PREREQUISITES

- Experience in Programming language (Any)
- Knowledge of Web Application Development

LEARNING OBJECTIVES

- Explain new features introduced in ES6
- Apply variable declarations with `let` and `const`
- Use arrow functions and lexical `this` behaviour
- Apply destructuring, spread operator and rest parameters
- Compare TypeScript with JavaScript
- Implement classes, constructors and access modifiers in TypeScript
- Apply inheritance and static members in TypeScript
- Describe interfaces, modules and namespaces in TypeScript

2 Modules, 24 Topics

01

JavaScript: Intro to ES6

TOPICS

- What's new in ES6
- Variable Declarations with LET and CONST
- Strings in ES6
- Arrow Functions: Basics
- **Arrow Functions:** Lexical 'this' Keyword
- Destructuring
- Arrays in ES6
- The Spread Operator
- Rest Parameters
- Default Parameters
- Classes

02

TypeScript

TOPICS

- What is TypeScript?
- TypeScript installation
- TypeScript vs. JavaScript
- OOPs in TypeScript
- Creating Classes and class properties
- Methods
- Access Modifiers
- Constructor
- Getters and Setters
- Static properties and methods
- Inheritance
- Interfaces
- Modules and Namespaces

WHAT IS INCLUDED

Everything You Need to Succeed

- Koenig course material for every module
- Delivery by certified instructors and subject matter experts
- Hands-on exercises throughout the course
- Course completion certificate from Koenig

ABOUT KOENIG

Who We Are

Established in 1993, Koenig Solutions is a globally recognised training provider with 35+ technology partnerships, 5,000+ training programmes and a network of certified instructors and subject matter experts, supporting individuals and enterprise teams worldwide.

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