KOENIG SOLUTIONS · COURSE OUTLINE

TypeScript

Learn to write TypeScript programs, from basic types and functions to object-oriented concepts, modules and namespaces.

5 MODULES

23 TOPICS

COURSE OVERVIEW

This course introduces TypeScript, covering installation and writing a first program. It then addresses core language basics such as variables, type assertions, numbers, booleans, tuples and enums, followed by arrays, functions and arrow functions. Object-oriented programming concepts are covered, including classes, class properties, methods, access modifiers, constructors, getters and setters, static members, inheritance and interfaces. The course concludes with modules and namespaces, including importing and exporting modules and loading modules.

WHO THIS COURSE IS FOR

- **TypeScript Developers**
- **JavaScript Developers**
- **Front-End Developers**
- **Software Engineers**
- **Web Developers**

LEARNING OBJECTIVES

- Explain what TypeScript is and set up its installation
- Apply variables, type assertions, tuples and enums
- Build arrays and functions, including arrow functions
- Implement classes with properties, methods and constructors
- Apply access modifiers, getters, setters and static members
- Describe inheritance and interfaces in TypeScript
- Organise code using namespaces and namespace imports
- Implement module import and export for loading code

COURSE SYLLABUS

5 Modules, 23 Topics

01

Getting Started with TypeScript

TOPICS

What is TypeScript? · TypeScript installation · Installing TypeScript · First Program

02

Basics

TOPICS

Variables · Types and Types Assertions · Number and Booleans · Tuples and enums

03

Arrays and Functions

TOPICS

Arrays and Types · Functions in TS · Arrow Functions

04

Getting Started with OOPS Concepts

TOPICS

Creating Classes and class properties · Methods · Access Modifiers · Constructor · Getters and Setters · Static properties and methods · Inheritance · Interfaces

05

Modules and Namespaces

TOPICS

Introduction to Namespaces · Namespaces Import · Loading modules · Importing and Exporting Modules

NOTES

- Coverage of course contents will depend upon prior knowledge of the participant.

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.

FLEXIBLE DELIVERY

Learn the Way That Suits You

Classroom Training | Live Online Classes (ILO) | Fly-Me-A-Trainer (FMAT) | Flexi (Self-Paced) | 1-on-1 Training

Ready to Get Started?

Talk to a learning advisor about schedules, group training and customised delivery.

Visit koenig-solutions.com | info@koenig-solutions.com