DevOpsSchool

Course curriculum · November 2026

LEVEL 02 OF 04 · ESSENTIAL

Typescript With Nestjs Essential Training

Build a NestJS REST API with validated DTOs, PostgreSQL persistence through TypeORM and well-structured providers and modules.

LIVE ONLINE **Max 8-10 hours**	CORPORATE (DAY-WISE) **2 days · Days 1-2**	SELF-PACED VIDEO **1-year LMS access**
BATCH SIZE **Max 10 learners**	NEXT BATCHES **1st of every month · weekends: first Saturday**	CERTIFICATE **Verifiable certificate of completion**

Foundation	Essential	Intermediate	Advanced
1 day · Included	2 days · This curriculum	3 days · Next step	5 days · Later

INSIDE THIS CURRICULUM

What you will achieve	Outcomes and level focus
Who should attend	Audience and prerequisites
Agenda	26 topics · Foundation to Essential
Hands-on labs	2 labs
Formats and fees	Live, self-paced, corporate
Trainer and reviews	Rajesh Kumar
Enrolment	Batches, payment, contacts

WHY DEVOPSSCHOOL

- Rated 4.6 on Google
- 1,500+ verifiable certificates issued in the public registry
- Trainer Rajesh Kumar: 20 years in industry
- Small batches: max 10 learners, every session recorded

Course page: www.devopsschool.com/courses/typescript/typescript-with-nestjs-essential-training.html
Talk to us: WhatsApp +91 99057 40781 · +1 (469) 756-6329 · contact@DevOpsSchool.com · reply within 1 hour

OUTCOMES

What you will achieve

By the end of the Typescript With Nestjs course path, you will be able to:

1

Write solid TypeScript

Use types, classes, interfaces, modules and advanced type features to write maintainable code.

2

Build NestJS APIs

Build REST APIs with controllers, services, DTO validation, TypeORM and dependency injection.

3

Ship production services

Secure, document, test and deploy NestJS applications with OpenAPI, Jest and containers.

WHAT THE ESSENTIAL LEVEL ADDS

NestJS REST APIs, TypeORM and dependency injection

Hands-on: Build a NestJS REST API with PostgreSQL. Create a NestJS CRUD API with validated DTOs, TypeORM entities and relations, migrations and paginated queries against PostgreSQL in Docker.

WHO SHOULD ATTEND

- Learners who know the basics of Typescript With Nestjs and want to use it confidently every day.
- Professionals taking over Typescript With Nestjs work on a live project.
- Teams agreeing on a common way of working with Typescript With Nestjs.

BEFORE YOU START

- The Foundation level, or equivalent hands-on experience.
- You can already: Set up TypeScript tooling and write typed functions, classes, interfaces and modules ready for NestJS development.
- Basic computer skills and a laptop with a stable internet connection for the live sessions and labs.
- This curriculum includes every earlier level, so it is complete on its own.

AGENDA · FOUNDATION TO ESSENTIAL

Typescript With Nestjs Essential Training agenda

26 topics. Each level builds on the one before it, so this curriculum lists every earlier level in full. Days are for corporate (day-wise) delivery; live online batches cover the same agenda in max 8-10 hours.

DAY 1 — Foundation: TypeScript language, typing, classes and modules

Included from Foundation

1. Getting started with TypeScript: why use it, key features, syntax, keywords and code hierarchy
2. Tooling and framework options: TypeScript Playground, Visual Studio, Web Essentials, Sublime Text, tsc and Node.js
3. Hello World: compiling a first program, creating a class and a basic tsconfig.json
4. Grammar, declarations and annotations: let and const, type annotations and type inference
5. Static and dynamic typing: compile time versus run time checks, the any type and primitives
6. Ambient declarations: declare statements, .d.ts type definition files and @types packages
7. Applying types: objects, functions, arrow functions, debugging with source maps and function interfaces
8. Classes: defining classes, property limitations with access modifiers and readonly, casting and definition files
9. Extending types and interfaces: inheritance, using interfaces and extending an interface
10. Internal modules: identifying a module, creating internal modules, accessibility and IIFE, named modules
11. Organising modules: extending modules, importing shortcuts, organising and separating internal modules
12. External modules: dependency resolution, module dependencies, AMD imports of modules and third-party libraries, ES modules today

DAY 2 — Essential: NestJS REST APIs, TypeORM and dependency injection

New at this level

13. Getting started with NestJS: introduction, installing the Nest CLI, what is inside an application and the course project
14. Development workflow: running NestJS in development mode and calling endpoints with Insomnia
15. Controllers: a basic controller, route parameters, request body and payload handling and response status codes
16. CRUD operations: handling update and delete requests and pagination with query parameters
17. Services and errors: creating a basic service and sending user-friendly error messages with HttpException
18. Feature modules: encompassing a business domain in modules with clear imports and exports
19. Data Transfer Objects: introduction to DTOs and validating input with class-validator and ValidationPipe
20. Request safety: handling malicious request data with whitelisting and auto-transforming payloads to DTO instances
21. Database setup: installing Docker and running PostgreSQL for local development
22. TypeORM basics: the TypeORM module, creating an entity and using a repository to access the database
23. Relations: relating two entities, retrieving entities with relations and cascading inserts and updates
24. Data access patterns: pagination, transactions, indexes on entities and setting up migrations
25. Dependency injection: how DI works, module encapsulation and value, class, factory and non-class token providers
26. Advanced providers: async providers, dynamic modules, provider scope and request-scoped providers in depth

PRACTICE

Hands-on labs

You build these yourself during the course, guided by the trainer.

FOUNDATION

Build a typed TypeScript utility library

Create a small TypeScript project with classes, interfaces and modules, compile it with tsc and debug it in Node.js using source maps.

ESSENTIAL

Build a NestJS REST API with PostgreSQL

Create a NestJS CRUD API with validated DTOs, TypeORM entities and relations, migrations and paginated queries against PostgreSQL in Docker.

HOW YOU CAN LEARN

Formats and fees

The same agenda in three formats. Fees are in Indian rupees as of November 2026; the course page shows them in your currency.

FORMAT	DURATION	WHAT YOU GET	FEE
Live & interactive (online)	Max 8-10 hours	Instructor-led public batch of max 10 learners with demos, labs, Q&A and assignment review. Weekday batches start on the 1st of every month, weekend batches on the first Saturday of every month.	**INR 34,999**
Self-paced video	1-year LMS access	All four Typescript With Nestjs levels, plus 20+ more courses and 50+ tools, at your own pace.	**INR 833/month** billed yearly at INR 9,996
Corporate (day-wise)	2 days for this level	A private batch for your team, on demand. Foundation 1 day, Essential 2, Intermediate 3, Advanced 5 (cumulative). 1:1 training is also available on demand.	**Quote on request**

ASSESSMENT AND CERTIFICATE

Your progress is checked through hands-on labs and assignments at every level. On completion you receive a DevOpsSchool certificate of completion with a unique credential ID that anyone can verify at devopsschool.com/certificates.

INCLUDED WITH EVERY LIVE BATCH

- Every live session is recorded and stays in your LMS for a year.
- Can't attend your batch? Move to next month's batch.
- Free demo class before you pay.
- Free 10-15 minute call with an advisor or the trainer to check the course fits you.

YOUR TRAINER

Learn from Rajesh Kumar

Principal Architect, trainer and mentor in DevOps, SRE, DevSecOps and platform engineering, with 20 years across 8+ software MNCs, including Staff DevOps/SRE Engineer for a leading Japanese mobile-payment platform and Principal DevOps Architect and Manager in Europe.

Profile: www.rajeshkumar.xyz · Videos: youtube.com/@TheDevOpsSchool

20 years in industry	**200+** corporate trainings
10,000+ engineers mentored	**70+** organisations coached

REVIEWS

What learners say

Rated 4.6 on Google · more reviews at devopsschool.com/testimonials and in our video testimonials.

> “Rajesh is very good trainer. Rajesh was able to resolve our queries and question effectively. We really liked the hands-on examples covered during this training program.”
>
> Indrayani, India

> “The training was very useful and interactive. Rajesh helped develop the confidence of all.”
>
> Abhinav Gupta, Pune

START YOUR TYPESCRIPT WITH NESTJS TRAINING

Join the next batch

Weekday batches start on the 1st of every month and weekend batches on the first Saturday of every month, with max 10 learners each. Corporate and 1:1 batches run on demand. We reply within 1 hour.

Pay by UPI, credit and debit cards, net banking or PayPal. Before you pay, read our refund policy. All levels of this course: www.devopsschool.com/courses/typescript/

ENROL OR RESERVE A SEAT
Typescript With Nestjs Essential Training

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Next step after this level: Typescript With Nestjs Intermediate Training - Configure NestJS apps per environment and use filters, guards, interceptors, pipes and JWT auth to build secure, consistent APIs.