

Intermediate C# and .Net Core | Patterns, Generics, Threading, Database, Entity Framework, UI & More (TTCN2155)

Price: 2695

Duration:

Delivery Methods: Virtual

Overview

Developing Applications in C# and .Net Core (Intermediate C# / .Net Core) is a lab-intensive, hands-on course designed to provide you with the skills required to take your C# programming skills to the next level. Throughout the course you'll explore C# Design Guidelines, Robust Classes, Generics, Lambda Expressions & LINQ, Reflection & Metadata, Resources & Globalization, Basics of Threading and the Basics of Database connectivity.

Audience Profile

This is an intermediate-level .Net programming course, designed for experienced C# developers

At Course Completion

Our engaging instructors and mentors are highly experienced practitioners who bring years of current "on-the-job" experience into every classroom. Working in a hands-on learning environment, guided by our expert team, attendees will learn to:

- Design and implement classes that adhere to SOLID design principles
- Understand common design patterns
- Implement robust classes with properties, methods, delegates & events

- Understand, use, and implement generics
- Explore generics in the .Net Framework
- Understand and use Language integrated Query (LINQ)
- Understand and use Lambda expressions
- Build dynamic applications using reflection
- Use internationalization to build world friendly applications
- Build multithreaded applications
- Understand the basics of database access
- What's new in .Net Core and C#?

Outline

1. Quick C# Basics Refresher

2. Design Guidelines

- Conventions
- Class Design guidelines
- Exception Design guidelines
- Common Design Patterns

3. Robust Classes

- Properties
- Functions
- Delegates
- Events
- .Net Core and C# 9+ features

4. Generics

- Generic Classes
 - Generic Functions
 - Survey of Generics in the .Net Library
5. Lambda Expressions & LINQ
- Using lambdas to generate a delegate
 - Introduction to Language Integrated Query (LINQ)
6. Reflection & Metadata
- Reflections basics
 - Attributes
7. Resources & Globalization
8. Basics of Threading
- Creating Threads
 - Coordinating threads
 - Overview of the task parallel library
9. Basics of Entity Framework
- DbContext
 - Code first vs Db first
 - Entities
 - Mapping

Prerequisites

Students should have development skills at least equivalent to the following course(s) or should have attended one of these as a pre-requisite:

Programming in C# | Creating Apps in C# and .Net Core

Course Schedule

Date	Time	Price	Options
05/11/2026	09:00 AM - 05:00 PM CT	2,695.00	Buy Now Enroll
05/11/2026	09:00 AM - 05:00 PM CT	2,695.00	Buy Now Enroll

Why Professionals Choose TOPTALENT?

Dedicated Texas-Based Support

Get assistance every step of the way from our **Texas-based team**, ensuring your training experience is hassle-free and aligned with your goals.

3000+ Curated Professional Courses

Access an extensive portfolio of over 3000 courses across IT, Business Application and Leadership – Designed to meet evolving Industry demands

95% Client Approval Rating

Trusted by professionals nationwide our 95% approval rating reflects consistent quality, measurable impact and exceptional service.

Certified Industry Instructor

Learn from professionally certified experts with real world experience and a proven commitment to learner success.

For questions

call:

[\(469\) 721-6100](tel:(469)721-6100)

Email:

info@toptalentlearning.com

[Find More Training](#)

FAQ

What if I have to reschedule my class due to conflict?

Ten (10) business days' notice is required to reschedule a class with no additional fees. Notify TOPTALENT LEARNING as soon as possible at 469-721-6100 or by written notification to info@toptalentlearning.com to avoid rescheduling penalties.

How do I enroll for this class?

Please contact our team at 469-721-6100; we will gladly guide you through the online purchasing process.

What happens once I purchase a class?

You will receive a receipt and an enrollment confirmation sent to the email you submitted at purchase. Your enrollment email will have instructions on how to access the class. Any additional questions our team is here to support you. Please call us at 469-721-6100.

What is your late policy?

If a student is 15 minutes late, they risk losing their seat to a standby student. If a student is 30 minutes late or more, they will need to reschedule. A no-show fee will apply. Retakes are enrolled on a stand-by basis. The student must supply previously issued courseware. Additional fees may apply.

What happens when I finish my class?

You will receive a 'Certificate of Completion' once you complete the class. If you purchased an exam voucher for the class, a team member from TOPTALENT LEARNING will reach out to discuss your readiness for the voucher and make arrangements to send it.