

# Programming: C# and ASP.NET

Materials & teaching in English



## Learn C# and ASP.NET from the ground up and build the skills to develop web applications, work with data and write professional-grade code.

C# is one of the most widely used programming languages in the world. Developed by Microsoft, it powers everything from enterprise software and Windows applications to games built in Unity. It is a core language in the .NET ecosystem and a practical, in-demand skill for developers working across industries.

The course starts at the very beginning. You learn what programming is, how to think like a developer, and how to work with the building blocks of C#: variables, data types, strings, arrays, loops and methods. Hands-on labs run throughout, so you practise as you go.

From there the course moves into object-oriented programming. You build with classes, learn how to structure code using abstraction and encapsulation, and progress into inheritance, polymorphism and interfaces. These are the concepts that professional C# developers use every day, and the course builds them properly before moving on.

The intermediate part covers the features that make C# powerful in

real-world development. You work with collections, generics, exception handling, delegates, lambdas and events. You learn how to write asynchronous code with `async/await`, how to handle file I/O, and how to query data efficiently using LINQ.

The final part of the course is dedicated to web development with ASP.NET. You set up a local development environment, build web applications using Razor Pages, work with routing and page models, and connect your application to a database using Entity Framework. You also cover middleware, dependency injection, data validation and debugging, and finish with a capstone project where you build a web application of your own.

Each track ends with an assessment. The course concludes with an exam. Included is 1 certification attempt for the C# Coding Apprentice (CCA) certification via Knowledge Pillars - a documented proof of your skills that carries weight in a job application.

## You will learn



### Programming Fundamentals

- Understand how code works and think like a programmer
- Learn variables, data types and control flow from scratch
- Build a solid foundation before writing C#



### C# Core

- Work with strings, arrays, loops, lists and methods
- Apply object-oriented programming with classes
- Use abstraction and encapsulation in practice



### Intermediate C#

- Work with inheritance, polymorphism and interfaces
- Handle exceptions, generics and collections
- Use lambdas, delegates, events and `async/await`



### Data and LINQ

- Query and filter data with LINQ in C#
- Work with iterators, nullable types and file I/O
- Write clean, type-safe code with modern C# patterns



### Web Development with ASP.NET

- Build web apps using Razor Pages and the .NET framework
- Handle routing, page redirection and HTTP requests
- Connect apps to databases with Entity Framework



### ASP.NET Architecture

- Work with middleware and dependency injection
- Validate user input and build secure, scalable apps
- Build and debug a complete ASP.NET web application

## The course is for you if you...

- ✓ You want to work as a developer and are ready to learn C# properly, from core syntax and object-oriented programming through to data handling, advanced language features and full-stack web development with ASP.NET.
- ✓ You have some interest in or exposure to programming and want a structured, comprehensive path through C# and web development that ends with skills and a certificate you can show to employers.

### Course structure

The course includes self-paced online sessions, Labs and a Final Exam assessment. You also get access to a library of e-books.

### Certification

The course concludes with an exam. Included is 1 certification attempt for the C# Coding Apprentice (CCA) certification via Knowledge Pillars. The attempt must be used within 1 month of completing the course.

### Careercoach

You also can spar with Itucation's career coach regarding CV, application and job strategy. If you wish to take advantage of this offer, please send an email to [kurser@itucation.dk](mailto:kurser@itucation.dk)



## Upcoming courses

- Start every monday!

## Information & Pris

<b>Location</b>	E-learning, Selfstudy
<b>Classes</b>	5 days a week
<b>Duration</b>	6 weeks
<b>Price for applicants</b>	<b>Free for unemployed*</b>
<small>*Free, if you fulfil the criteria for 6-week job-oriented training programs via the Jobcenter</small>	
<b>Price for jobcenter:</b>	Kr. 19.600 (ex. moms)
<b>Sign-up</b>	<b><a href="http://www.itucation.dk">www.itucation.dk</a></b> Or contact us on 7027 2784

## Information til a-kasser og jobcentre

### Regional positivliste

E-learningkurset er godkendt.

Se vores hjemmeside for listetitel og

listenumre.

### Pris

Kr. 19.600 (ex. moms)

Ugepris: kr. 3.266,66 (ex. moms)

### Betalingstilsagn sendes til

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