



# Advanced C# Programming

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Length: Two days

Level: Advanced

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## DESCRIPTION

This course allows students to increase their productivity and to produce industrial-strength C# code. Hands-on exercises make them practice developing high-quality reusable code.

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## OBJECTIVES

Upon completion of the course, participants will be able to:

- Manipulate text using regular expressions
  - Transfer data using I/O streams
  - Make their objects persistent
  - Handle handling using exceptions
  - Make their objects more intuitive to use with operator overloading and user-defined conversions
  - Implement event-driven programming
  - Generate XML documentation from C# source code comments
  - Manipulate data using collections
  - Use threads to make their applications more efficient and more reactive
  - Discover type information at run time using attributes and reflection
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## TOPICS

- Regular expressions
  - I/O with streams
  - Serialization
  - Exceptions
  - Operator overloading and user-defined conversions
  - Delegates and events
  - Documentation with XML
  - Collections and object enumeration
  - Multithreading and asynchronous programming
  - Attributes and reflection
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## AUDIENCE

- Software Developers
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## PREREQUISITES

- Basic understanding of object-oriented concepts.
- Basic understanding and hands-on practice of C# programming.