



# Programming with XML in the Microsoft .NET Framework

M2663

3 day

## Overview :

This three-day instructor-led course teaches developers how to program with XML in the Microsoft .NET Framework in order to build Microsoft Windows or Web-based integrated applications that are easier to build, scalable, and flexible.

## Target Audience :

This course is intended for:

- Programmers who build Web-based or Windows applications that access data
- Programmers who build Web services
- Programmers who build applications that access data stored as XML

This course is not recommended for developers who:

- Want to learn a programming language, such as Microsoft Visual Basic .NET or Microsoft Visual C#
- Want an introduction to XML and related technologies
- Want advanced-level information on developing XML-based applications
- Want to learn how to program by using Microsoft XML Core Services (MSXML), or how to program with XML in Microsoft Internet Explorer 6.0

## At the end of the course, delegates will be able to:

- Explain how XML is integrated into the .NET Framework and the classes associated with XML in the .NET Framework.
- Parse and read XML in the .NET Framework.
- Write and validate an XML document.
- Manipulate cached XML documents in memory.
- Query XML documents.
- Transform XML documents.
- Create new XML schemas programmatically.

## Course Content :

### Module 1: Introduction to XML in the .NET Framework

- Overview
- Course at a Glance
- Common Business Problems
- XML in the .NET Framework

### Module 2: Parsing XML

- Overview of XML Parsing
- Parsing XML Using XmlTextReader
- Creating a Custom Reader

### Module 3: Validating XML

- Examining Schemas
- Validating XML While Parsing
- Advanced Validation

### Module 4: Writing XML

- Overview of Generating XML Documents
- Writing XML
- Generating XML with Namespaces
- Controlling XML Format and Converting XML

### Module 5: Querying XML

- Introduction to Querying XML Using XPath
- Creating and Navigating a Document Cache
- Executing Your Query

### Module 6: Manipulating Cached XML

- Introduction to the XML Document Object Model
- Navigating XML Using the DOM
- Creating New Nodes
- Modifying and Deleting Nodes

### Module 7: Transforming XML

- Introduction to Transforming XML
- Programming the XslTransform Class
- Extending XSLT Style Sheets

### Module 8: Serializing Objects as XML

- Introduction to XML Serialization
- Serializing Objects Using XmlSerializer
- Controlling XML Serialization

## Course Prerequisites :

Before attending this course, students must have:

- Experience with programming languages such as Visual Basic .NET or Microsoft Visual C#.
- Experience using the Microsoft Visual Studio .NET developer environment.
- Experience building applications using the Extensible Stylesheet Language for Transformation (XSLT), XML Path Language (XPath), and XML schemas.

## Testing and Certification :

There are no Microsoft Professional Exams associated with this course.

## Follow on Courses :

## Further Information :

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