

**MN405**

MICROSOFT .NET - C# - VISUAL BASIC

# ASP.NET MVC Programming

 Laboratory course**DURATION**  
**3 DAYS****REGULAR FEE**  
**1 435 \$****PREFERENTIAL FEE**  
**1 290 \$**

## Objectives

To provide the knowledge and skills required to create dynamic Web solutions using Microsoft's ASP.NET MVC technologies.

## Targeted audience

All developers and Web specialists.

## Prerequisite

Experience with [application development in Visual Basic.NET](#) (Course MN204) or [Visual C#.NET L](#) (Course MN201), as well as basic knowledge of the Web and the HTML, CSS and JavaScript languages.

## Content

- The .NET tools and languages: .NET Framework 4.5 and Visual Studio 2017
- From ASP to ASP.NET MVC
- ASP.NET vs ASP.NET MVC
- Understanding the MVC design pattern
- The architecture of an application based on ASP.NET MVC
- The roles of the Model, the View and the Controller
- The Razor view engine
- Actions and the Controller
- Understanding the ASP.NET routing model
- Customizing routes
- Data binding
- Model, validation and data annotations
- Overview of ADO.NET: description and use of the libraries for data access
- Introduction to the Entity Framework
- Generating a model using the Entity Framework (ADO.Net Entity Data Model)
- Entity Framework's Code First approach
- Partial views
- Improving user interface using CSS style sheets and jQueryUI
- Integrating Bootstrap in an ASP.NET MVC
- ASP.NET MVC and AJAX using jQuery
- Configuration files: machine.config and web.config
- Security in ASP.NET MVC
- Debugging, tracing and exception management
- Overview of the Web SOAP ASMX and WCF services
- Overview of RESTful web services using the ASP.NET Web API

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## Select the training date\*

Montreal	April 27 to April 29 2020
Quebec City	May 4 to May 6 2020
Montreal	September 28 to September 30 2020
Quebec City	October 5 to October 7 2020