

Training: Microsoft
MS-20486 Developing ASP.NET MVC 4 Web Applications



FORM OF TRAINING	MATERIALS	PRICE	DURATION
Traditional	Digital materials	950 EUR	5 days
Traditional	CTAB Tablet	1050 EUR	5 days

LOCATIONS

Krakow - 5 Tatarska Street, II floor, hours: 9:00 am - 4:00 pm

Warsaw - 17 Bielska Street, hours: 9:00 am - 4:00 pm

TRAINING GOALS:

In this course, students will learn to develop advanced **ASP.NET MVC applications** using **.NET Framework 4.5** tools and technologies. The focus will be on coding activities that enhance the performance and scalability of the Web site application. **ASP.NET MVC** will be introduced and compared with Web Forms so that students know when each should/could be used.

This course will also prepare the student for **exam 70-486**.

CONSPECT:

- Module 1: Exploring ASP.NET MVC 4
 - Overview of Microsoft Web Technologies
 - Overview of ASP.NET 4.5
 - Introduction to ASP.NET MVC 4
- Module 2: Designing ASP.NET MVC 4 Web Applications
 - Planning in the Project Design Phase
 - Designing Models, Controllers, and Views
- Module 3: Developing ASP.NET MVC 4 Models
 - Creating MVC Models
 - Working with Data
- Module 4: Developing ASP.NET MVC 4 Controllers
 - Writing Controllers and Actions
 - Writing Action Filters
- Module 5: Developing ASP.NET MVC 4 Views

- Creating Views with Razor Syntax
- Using HTML Helpers
- Reusing Code in Views
- Module 6: Testing and Debugging ASP.NET MVC 4 Web Applications
 - Unit Testing MVC Components
 - Implementing an Exception Handling Strategy
- Module 7: Structuring ASP.NET MVC 4 Web Applications
 - Analyzing Information Architecture
 - Configuring Routes
 - Creating a Navigation Structure
- Module 8: Applying Styles to ASP.NET MVC 4 Web Applications
 - Using Template Views
 - Applying CSS to an MVC Application
 - Creating an Adaptive User Interface
- Module 9: Building Responsive Pages in ASP.NET MVC 4 Web Applications
 - Using AJAX and Partial Page Updates
 - Implementing a Caching Strategy
- Module 10: Using JavaScript and jQuery for Responsive MVC 4 Web Applications
 - Rendering and Running JavaScript Code
 - Using jQuery and jQueryUI
- Module 11: Controlling Access to ASP.NET MVC 4 Web Applications
 - Implementing Authentication and Authorization
 - Assigning Roles and Membership
- Module 12: Building a Resilient ASP.NET MVC 4 Web Application
 - Developing Secure Sites
 - State Management
- Module 13: Using Windows Azure Web Services in ASP.NET MVC 4 Web Applications
 - Introduction to Windows Azure
 - Designing and Writing Windows Azure Services
 - Consuming Windows Azure Services in a Web Application
- Module 14: Implementing Web APIs in ASP.NET MVC 4 Web Applications
 - Developing a Web API
 - Calling a Web API from Mobile and Web Applications
- Module 15: Handling Requests in ASP.NET MVC 4 Web Applications
 - Using HTTP Modules and HTTP Handlers
 - Using Web Sockets

- Module 16: Deploying ASP.NET MVC 4 Web Applications
 - Deploying Web Applications
 - Deploying MVC 4 Applications

REQUIREMENTS:

Before attending this course, students must have:

- A minimum of two to three years of experience developing web-based applications by using [Microsoft Visual Studio](#) and **Microsoft ASP.NET**, proficiency in using the **.NET Framework**, and some familiarity with the [C#](#) language.

Difficulty level



CERTIFICATE:

The participants will obtain Microsoft certificates.

TRAINER:

Microsoft Certified Trainer.