

ASP.NET Core

Duration: 4 Days Course Code: ASPNET

Overview:

English - Please note this course is only available in English.

Nederlands - Let op: deze training is alleen in het Engels beschikbaar.

Français - Veuillez noter que ce cours est uniquement disponible en anglais. **ASP.NET Core Course Overview**

The ASP.NET Core course comprises sessions dealing with ASP.NET Core applications, MVC architecture (including writing models, views and controllers), en

Target Audience:

Who will the Course Benefit?

Objectives:

■ Course Objectives

■ This ASP.NET Core course aims to provide the delegate with the knowledge to be able to produce web-based applications that make use of the most popular elements of the framework including MVC, Razor, Entity Framework, tag helpers, Blazor and Web API.

Prerequisites:

■ Delegates attending this course should have some previous programming experience with C#. This knowledge can be obtained by attendance on the pre-requisite C# Developer course.

Content:

ASP.NET Core Training Course Course Contents - DAY 1

Course Introduction

- Administration and Course Materials
- Course Structure and Agenda
- Delegate and Trainer Introductions

Session 1: INTRODUCING ASP.NET

- ASP.NET Core and ASP.NET Framework
- Application Architecture
- Development tools

Session 2: MODEL-VIEW-CONTROLLER (MVC) APPLICATIONS

- MVC and .NET
- Models
- Views
- Controllers
- Blazor

Session 3: ENTITY FRAMEWORKS

- Entity Framework Core
- Database Access
- Data Migration
- Lazy,Eager and Explicit Loading

Session 4: MODELS

- Implementing Models
- Using Forms
- Validating Data ASP.NET Core Training Course Course Contents - DAY 2

Session 5: DEPENDENCY INJECTION

- Configuration Injection
- Action Injection
- Constructor Injection
- Service Injection

Session 6: CONTROLLERS

- Controllers and Actions
- Configuring Routes with the Routing Table
- Configuring Routes with Attributes

Session 7: NAVIGATION

- Filtering
- Partial Views

Session 8: VIEWS

- Razor Markup Language
- Validating View Data
- View Components ASP.NET Core Training Course Course Contents - DAY 3

Session 9: TAG HELPERS

- HTML Helpers
- Tag Attributes
- Environment and Link Helpers

Session 10: SINGLE PAGE APPLICATIONS

- Razor Pages and SPAs
- Handling Static Content

Session 11: ERROR HANDLING

- Custom Error Pages
- Dealing with Custom Exceptions
- Filtering Errors

Session 12: RESTFUL APIS

- Web API and RESTful APIs
- HTTP Request and Response
- Web API Action Methods
- Consuming a Web API ASP.NET Core Training Course Course Contents - DAY 4

Session 13: STATE MANAGEMENT

- HTTP and State
- Using Cookies to Manage State
- Caching

Session 14: UNIT TESTING

- Using xUnit
- Testing Models
- Testing Controllers

Session 15: SECURITY

- Authentication and Authorisation
- Using Identity
- Adding Windows Security

Session 16: DEPLOYMENT OPTIONS

- Deploying to IIS
- Deploying to Azure

Further Information:

For More information, or to book your course, please call us on 0800/84.009

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www.globalknowledge.com/en-be/