M1: Exploring ASP.NET MVC4
  o Overview of Microsoft Web Technologies
  o Overview of ASP.NET 4.5
  o Introduction to ASP.NET MVC 4
  o Designing Models, Controllers, and Views
M2: Developing ASP.NET MVC 4 Models
  o Creating MVC Models
  o Working with Data
M3: Developing ASP.NET MVC 4 Controllers
  o Writing Controllers and Actions
  o Writing Action Filters
M4: Developing ASP.NET MVC 4 Views
  o Creating Views with Razor Syntax
  o Using HTML Helpers
  o Reusing Code in Views
M5: Testing and Debugging ASP.NET MVC 4 Web Applications
  o Unit Testing MVC Components
  o Implementing an Exception Handling Strategy
M6: Structuring ASP.NET MVC 4 Web Applications
  o Analyzing Information Architecture
  o Configuring Routes
  o Creating a Navigation Structure
M7: Applying Styles to ASP.NET MVC 4 Web Applications
  o Using Template Views
  o Applying CSS to an MVC Application
Creating an Adaptive User Interface

M8: Building Responsive Pages in ASP.NET MVC 4 Web Applications

o Using AJAX and Partial Page Updates

o Implementing a Caching Strategy

M9: Using JavaScript and jQuery for Responsive MVC 4 Web Applications

o Rendering and Executing JavaScript Code

o Using jQuery and jQuery UI

M10: Controlling Access to ASP.NET MVC 4 Web Applications

o Implementing Authentication and Authorization

o Assigning Roles and Membership

M11: Building a Resilient ASP.NET MVC 4 Web Application

o Developing Secure Sites

o State Management

M12: Using Windows Azure Web Services in ASP.NET MVC 4 Web Applications

o Introducing Windows Azure

o Designing and Writing Windows Azure Services

o Consuming Windows Azure Services in a Web Application

M13: Implementing Web APIs in ASP.NET MVC 4 Web Applications

o Developing a Web API

o Calling a Web API from Mobile and Web Applications

M14: Handling Requests in ASP.NET MVC 4 Web Applications

o Using HTTP Modules and HTTP Handlers

o Using Web Sockets

M15: Deploying ASP.NET MVC 4 Web Applications
Deploying a Web Application

Deploying an MVC 4 Application

*Each of these modules will consist of three parts:

- Lecture covering module’s topics
- Coding practice covering module’s topics
- Short test covering module’s topics