

DELIVERY METHODS



ILT – Instructor-Led Classroom Training

ILT sessions are conducted in a physical classroom environment.



ILO – Instructor-Led Online Training

ILO sessions are conducted via WebEx in a VoIP environment



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Advanced Sitefinity Development (ASFDEV)

ID PE-ASFDEV Price US\$ 2,995 Duration 3 days

Who should attend

Back-end developers who need to develop web applications using Sitefinity

Prerequisites

At least 10 days before taking this course you must complete the Introduction to Sitefinity Development online course and pass the Basic Sitefinity Developer Certification Exam. We will send you instructions on how to access this self-paced course upon registering for this course.

Note: You must provide Fast Lane a copy of your Basic Sitefinity Developer Certificate at least 10 days before the Advanced Sitefinity Development course begins or your enrollment will be moved to a later date. This is to ensure everyone taking the Advanced Sitefinity Developer course is starting at the same level of knowledge and provides a better experience for the entire class.

In addition, you should have:

- Strong experience developing ASP.NET applications
- Working knowledge of ASP.NET MVC
- Strong experience with HTML and Javascript
- Working knowledge of AngularJS
- Experience with relational databases

Course Objectives

- Develop the presentation layer of a Sitefinity application using Sitefinity Feather
- Connect the presentation layer with the data layer using different APIs
- Model the data layer in Sitefinity
- Integrate external content and integrate with external systems
- Optimize a Sitefinity application
- Test Sitefinity application code

Course Content

The Advanced Sitefinity Development course builds on the topics covered in the Introduction to Sitefinity Development course. First, you will learn how to develop the presentation layer of a Sitefinity website using Sitefinity Feather—an ASP.NET MVC-based framework that enables you to easily develop page templates, pages, widgets, and widget designers. You will then learn how to use Sitefinity APIs (notably the Native, Fluent, and REST APIs) to bring content and data to the presentation layer, learn how to integrate your Sitefinity application with external data sources using custom providers, localize content and UI labels, and take advantage of the Sitefinity event-firing mechanism. Finally, you will learn how to optimize your Sitefinity application, manage configurations, and test your code using the Service Locator and the Dependency Injection pattern.

Detailed Course Outline



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Module 1: Brief Review of the Sitefinity Features

- Main architectural layers
- Presentation layer components
- Key Sitefinity features

Module 2: Developing the Presentation Layer using Feather

- Create a razor layout view – the Page Template
- Add grids to your page template
- Develop custom widgets
- Extend existing widgets

Module 3: The Widget Designer Framework

- Custom widget designer
- Configure settings and add script references for the custom widget designer
- Client components in your widget designer

Module 4: Bringing Content to the Presentation Layer Using APIs

- Native API
- Fluent API
- Using REST API to expose Sitefinity content to client applications

Module 5: Using Providers to Connect to Different Data Sources

- What is a provider?
- Data layer architecture

Module 6: Localization

- Language packs
- Client components
- Webinar widget

Module 7: Working with Events

- Subscribing to events
- EventHub
- Event types

Module 8: Optimizing the Performance of Your Sitefinity Application

- Avoid N+1 problems
- Lazy loading
- When to use SiteMapNode vs PageNode
- Warm up your application
- Configuring Sitefinity to use a CDN for scripts

Module 9: Managing Sitefinity Configurations

- ConfigManager
- Config helper class
- Create and register a custom configuration

Module 10: Testing Application Code

- Sitefinity Service Locator mechanism
- Dependency Injection pattern
- Mock Sitefinity content managers
- Mock content item classes
- Testing widgets

Labs

- Create a simple Sitefinity page
- Creating a resource package
- Creating a razor layout view
- Use the created page template
- Creating a custom grid widget
- Create a “Hello World” Sitefinity MVC widget
- Add an action that prints a random number
- Create a static widget that adds two numbers
- Invoking controller actions
- Creating a custom MVC widget

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- Extending a widget template
- Creating a widget template
- Creating a widget designer
- Dynamic content selector in the Webinar widget designer
- Connecting to an external news source
- Localize the Webinar widget
- Subscribe to an event when a Blog post is being created
- Get pairs of Webinars and Events
- Use related data to associate Webinars and Events