

Dev01: Kentico CMS 5 Developer Training Syllabus

About this Course

Elements of this syllabus are subject to change

This three day instructor led course will teach Web developers introductory fundamentals and best practices for building, deploying and maintaining applications with Kentico CMS 5. This course focuses on using Microsoft Visual 2008 development environment and the Microsoft .NET Framework 3.5 to create Kentico CMS applications that use the API, web parts, and widgets that delivers dynamic content to a Web site.

Audience Profile

This course is intended for Web developers who have knowledge of Hypertext Markup Language (HTML) or Dynamic HTML (DHTML), along with programming experience using Microsoft Visual Basic or Microsoft Visual C#.

At Course Completion

After completing this course, students will be able to

- Describe the key features of Kentico CMS 5
- Describe the architecture of Kentico CMS 5
- Setup a Kentico CMS Development Environment
- Navigate the CMS DESK and Site Manager to perform common administration functions
- Describe document types and how they are used within Kentico CMS
- Create custom document types
- Describe the process used for developing a Kentico CMS site.
- Understand page development options using Kentico CMS
- Create page templates using both the Portal Engine and ASPX templates
- Create and manage CSS Style sheets using Kentico CMS
- Create and implement Web Parts
- Describe the common Kentico CMS Web Parts
- Create complex transformations
- Access and manipulate data stored with the Kentico CMS content repository.
- Secure the Kentico CMS Web site using variety of technologies, including authentication and membership
- Implement and manage workflow and versioning using Kentico CMS

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- Setup and implement a multi-lingual sites
- Create Web Parts
- Add additional functionality using the Kentico API
- Describe additional functionality using Kentico CMS extensibility
- View runtime and caching information using the built in Kentico CMS functionality
- Deploy a Kentico CMS website.

Course Outline

Module 1: Overview of Kentico CMS

This Module introduces the Kentico CMS architecture

Lessons

- What is a Content Management System
- The CMS Development Process
- Kentico CMS Benefits
- Architectural Overview

After completing this Module, students will be able to:

- Describe the benefits of a Content Management System (CMS)
- Explain the CMS development process
- Explain the key benefits of Kentico CMS
- Describe the Kentico CMS physical architecture
- Describe the Kentico CMS software architecture
- Describe the Kentico API object model

Module 2: Installation and System Configuration

This module explains how to install and configure a Kentico CMS developer environment.

Lessons

- System Requirements
- Lab 1: Developer Installation
- Adding Kentico CMS Controls to the Toolbox
- Developer documentation and resources
- Understanding how licensing works

After completing this Module, students will be able to:

- List the Kentico CMS 5 system requirements
- Install a Kentico CMS developer environment
- List available documentation and additional resources for developers.
- Explain how licensing works.

Module 3: Kentico CMS Site Basics

This module explains the Kentico CMS user interfaces.

Lessons

- Kentico Modes of Operation
- Understanding Kentico Documents
- Lab 1: Examining Document Structure
- CMS Desk Overview
- Content Tree
- Lab 2: Viewing the Google Sitemap
- Lab 3: Editing Page Content

After completing this Module, students will be able to:

- Explain the use of CMS Desk and Site Manager
- Sign into CMS Desk and Site Manager
- Explain CMS content and structure
- Explain Kentico CMS Modules
- Understand common document type properties
- Edit page content

Module 4: Document Types

This module explains how to create and use document types.

Lessons

- Reviewing Document Types
- Lab 1: Creating a News Document
- Lab 2: Creating a Custom Document Type

After completing this Module, students will be able to:

- Create a News Item
- Create a custom document type.

Module 5: Page Templates

This module explains the development of page templates using the Kentico CMS framework.

Lessons

- Page Template Overview
- Lab 1: Creating an ASPX Page Template
- Lab 2: Using Nested Master Pages
- Lab 3: Adding a Portal Engine Template Page
- Lab 4: The Design Tab

After completing this Module, students will be able to:

- Describe page templates.
- Explain visual inheritance.
- Explain template reuse within Kentico CMS
- Create new page templates
- Implement a master page
- Explain ASPX page template development
- Create and register an ASPX page template
- Debug an ASPX page template
- Explain Portal Engine development
- Create a new Portal Engine page
- Use the Design Tab

Module 6: Managing CSS Styles

This module explains working with CSS style sheets and .NET application themes.

Lessons

- Managing CSS style sheets
- Lab 1: Changing your site CSS
- .NET application themes
- Styling web parts

After completing this Module, students will be able to:

- Manage CSS style sheets.
- Understand and use .NET application themes.
- Style web parts

Module 7: Content Presentation

This module explains ways to present content

Lessons

- Content display overview
- Lab 1: Creating and deploying a web user control
- Web parts
- Lab 2: Using editable controls
- Lab 3: Adding a tree menu web part
- Widgets
- Lab 4: Implementing a widget zone

After completing this Module, students will be able to:

- Implement a web user control
- List the common Kentico CMS web parts

- Customize the layout of web parts.
- Implement editable regions
- Implement navigation web parts.
- Explain widgets and their uses
- Implement a widget zone

Module 8: Security and Membership

This module explains managing users, roles and permissions.

Lessons

- Security overview
- Lab 1: Adding Users
- Lab 2: Enabling UI Personalization
- Lab 3; Changing the WYSIWYG Editor
- Lab 4: Changing Module Permissions
- Reviewing Document Permissions
- Lab 6: Displaying Role Based Content

After completing this Module, students will be able to:

- Implement Kentico CMS users and roles.
- Implement Kentico CMS module permissions
- Implement Kentico CMS document type permissions.
- Implement document level permissions.
- Create secured web site areas.
- Implement personalized content based on roles.

Module 9: Writing Transformations

This module explains writing transformations and using the built-in Kentico CMS functions.

Lessons

- Transformation Overview
- Lab 1: Web Part Transformation
- Lab 2: Transforming the Event Repeater
- Lab 3: Displaying ratings in transformation
- Calling Methods in Transformations

After completing this Module, students will be able to:

- Explain the use of transformation in Kentico CMS
- Implement transformations.
- Explain transformations using the Kentico CMS built-in functions.

Module 10: Workflow and Versioning

This module explains the configuration of workflow and usage of document versioning

Lessons

- Workflow overview
- Lab 1: Configure a workflow
- Lab 2; Publishing News items
- Versioning
- Check in/out and content locking

After completing this Module, students will be able to:

- Explain workflow within Kentico CMS
- Configure workflow.
- Publish documents.
- Explain Kentico CMS document versioning.
- Explain Kentico CMS check-in/check-out.

Module 11: API and Extensibility

This module explains application development using the Kentico CMS API.

Lessons

- Kentico CMS API Overview
- Lab 1: Accessing and modifying users
- Accessing and modifying documents
- Lab 2: Developing custom modules
- Using custom methods in transformations
- Global event handlers

Prerequisites

Before attending this course, students must have:

- Programming experience using Microsoft Visual Basic or Microsoft Visual C#
 - Declaring variables
 - Using loops
 - Using conditional statements
- Knowledge of HTML or DHTML, including:
 - Tables
 - Images
 - Forms