

Kentico CMS 5

Certified Developer Exam

Preparation Guide

About this exam

Exam questions subject to change

This exam is designed to test the candidate's knowledge and skills in fundamentals and best practices for building, deploying and maintaining applications a web site with Kentico CMS 5 to deliver dynamic web site content.

- Questions that contain code will be presented in C#.
- Exam covers all release of Kentico CMS 5.

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Candidate Profile

The candidate works in a development environment that uses Kentico CMS 5 and the .NET Framework to create and deliver dynamic web application. The candidate should have at least one year of experience developing applications using Kentico CMS, or attended a certified Kentico CMS 5 Developer training.

In addition, the candidate should be able to demonstrate the following:

- A solid understanding of the .NET Framework and ASP.NET development
- Experience in creating data driven web user interfaces
- Experience in creating layouts using Cascading Style Sheets
- Experience with setup and deployment of a web site

Skills Measured

The exam measures your ability to accomplish the technical tasks listed below.

- 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 within 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
- Setup and implement a multi-lingual sites
- 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

Exam Preparation Questions

1. In which of the following areas can custom functions not be used? (mark any incorrect choice)
 - a. Menu Captions
 - b. Transformations
 - c. Code behind
 - d. Forum Posts

Answer A, D

2. The creation of transformations is NOT allowed in which of the following CMS 5 administration interfaces? (mark all that are incorrect)
 - a. CMS Site Manager ->Development -> Custom Tables
 - b. CMS Site Manager ->Development -> Document Types
 - c. CMS Desk -> Tools ->Custom Tables
 - d. CMS Desk -> Content tree -> Properties ->Web Part Properties

Answer C, D

3. (True/False) The Design tab in CMS Desk is only available with Page Templates built with the ASPX model
 - a. True
 - b. False

Answer B

4. (True/False) In order to debug a page template with Visual Studio the debug key is added to the web.config file
 - a. True
 - b. False

Answer B

5. The CMS.CMSHelper.CMSContext class provides information about which of the following?
- Current site
 - Current user
 - Current page
 - All of the above

Answer D

6. Which of the following API class allows the viewing of user information? (mark all that are correct)
- CMS.SettingsProvider.CMSConstraints
 - CMS.Community.FriendInfo
 - CMS.SiteProvider.UserInfoProvider
 - CMS.CMSHelper.CMSContext

Answer C, D

7. When displaying dynamic data in a transformation, which of the following are NOT valid (mark all that are NOT correct)
- Eval(""), API, Built in Methods
 - HTML Markup, Eval(""), Built in Methods
 - Custom Function, HTML Markup, User Control
 - Dynamic Data cannot be displayed

Answer D

8. (True/False) Transformations are applied to the Editable Region control type using the Design tab.
- True
 - False

Answer B

9. Entering the /products/% into the Path property of a web part will select which documents
- All product type documents under the root path
 - All news type documents under the products path
 - All documents under the products path
 - All document starting at the root

Answer C

10. (True/False) the CMS.CMSHelper.TreeHelper.SelectNodes method returns a DataSet object containing the nodes (documents) from a given path.
- True
 - False

Answer A

11. Transformations cannot be applied to a portal engine page from these areas? (mark all that apply)
- CMS Desk -> Choose page -> Design tab -> Web part properties
 - CMS Desk -> Choose document -> Design tab -> Web part properties
 - CMS Desk -> Choose Page -> Properties -> Web part properties
 - CMS Desk -> Choose page -> Page tab -> Web part properties

Answer C, D

12. (True/False) Transformations can be edited in the Kentico CMS 5 interface through the CMS Site Manager -> Development -> Document Types
- True
 - False

Answer A

13. (True/False) Transformations can be edited in the Kentico CMS 5 interface through the CMS Desk -> Tools -> Custom Tables
- True
 - False

Answer B

14. Which of the following will cause an error when referencing a transformation?
(Mark all that will generate an error)
- En-us.MyTransformation
 - ClassName.MyTransformation
 - DocumentName.MyTransformation
 - SiteName.MyTransformation

Answer A, C, D

15. (True/False) In order to enable workflow, versioning and content/locking site wide you must at least enable Check in/Check Out in Site Administrator Content Management Settings and define a scope for the default workflow
- True
 - False

Answer A

16. (True/False) In Kentico CMS 5 you are able to define a maximum of two document aliases for any document.
- True
 - False

Answer B

17. (True/False) All widgets are based on web parts
- True
 - False

Answer A

18. (True/False) By default when a new widget is created all configuration properties are automatically exposed
- True
 - False

Answer B

19. Workflow includes which of the following features (Select all that are correct)
- Organize the process of content creation
 - Versioning
 - Content locking (Check in/Check out)
 - Document archiving

Answer A, B, C, D

20. Document types have which of the following?
- Editing form layout
 - Data structures
 - Transformations
 - All of the above

Answer D

21. Creating custom document types is done in which interface?
- CMS Desk
 - Content tree
 - Design tab
 - Site Manager

Answer D

22. (True/False) All workflow settings are managed in Site Manager -> Development -> Workflows
- True
 - False

Answer B

23. Kentico CMS 5 content staging support which of the following (select all that apply)
- Document attachments
 - Document relationships
 - Custom tables
 - ACLs (document permissions)

Answer A, B, C

24. (True/False) Kentico CMS 5 Content Staging will automatically synchronize Blog comments
- True
 - False

Answer B

25. (True/False) The TreeNode methods are used to access both un-versioned and versioned document in the CMS system
- True
 - False

Answer B

26. In Kentico CMS 5 ASPX Page Templates provide the following features? (Select all that correct)
- a. Design tab
 - b. Preview mode
 - c. Editing mode
 - d. Master page tab

Answer B, C

27. Which Using statement is needed to access a node in the Content tree?
- a. Using CMS.SiteProvider;
 - b. Using CMS.GlobalHelper;
 - c. Using CMS.TreeEngine;
 - d. Using CMS.DataEngine;

Answer C

28. Kentico CMS 5.5 natively supports which of the following authentication methods?
- a. Open ID
 - b. Windows Live ID
 - c. Active Directory
 - d. All of the above

Answer D

29. Which is not an available page template type for Kentico CMS 5? (Mark all that are incorrect)
- a. Portal Page
 - b. ASPX Page
 - c. JSP Page
 - d. Master Page

Answer C, D

30. Which DLL do you set a reference to in order to add the Kentico CMS controls in Visual Studio?
- a. Kentico.WebControls.dll
 - b. CMS.UIControls.dll
 - c. CMS.Controls.dll
 - d. Kentico.Controls.dll

Answer C

31. True/False – Custom document types are searchable using smart search
- a. True
 - b. False

Answer A

32. True/False – In Kentico CMS 5 it is not possible to restrict document types by site
- a. True
 - b. False

Answer B

33. True/False – Namespaces are used to group custom document types together.
- a. True
 - b. False

Answer A

34. What types of custom fields can you create with a custom document type?
- a. Text box
 - b. Media selection
 - c. Label
 - d. All of the above

Answer D

35. True/False – New document types must contain at least one custom field
- True
 - False

Answer B

36. Which of the following Using statements is needed to access the current user's email address?
- Using CMS.DataEngine;
 - Using CMS.GlobalHelper;
 - Using CMS.TreeEngine;
 - Using CMS.SiteProvider;

Answer D

37. Which action allows a custom module to be visible in Site Manager?
- Add a special Site Manager permission to the custom module and allow access CMS Desk administrators
 - Add a UI element to the My Desk module
 - Copy the ASPX file to the ~/CMSSiteManager directory
 - Check the "Show in development" box on the General tab for the custom module

Answer D

38. Which web.config key is used to enable custom event handlers in your Kentico CMS 5 website?
- `<add key = "CMSUseCustomHandlers" value=true>`
 - `<add key = "CMSUseSessionCookies" value="true">`
 - `<add key = "CMSUseDefinedEventHandlers" value="true">`
 - `<add key = "CMSUseSessionCookies" value="true">`

Answer A

39. True/False – Edit/Published/Archived are the default steps created for any new workflow
- a. True
 - b. False

Answer A

40. When writing a Global Event handler for updating documents without a workflow which class would you place your code in?
- a. CustomDataHandler.cs
 - b. CustomTreeNodeHandler.cs
 - c. CustomWorkflowHandler.cs
 - d. CustomSecurityHandler.cs

Answer B

41. When writing a Global Event handler for updating documents that are part of a workflow which class would you place your code in?
- a. CustomDataHandler.cs
 - b. CustomTreeNodeHandler.cs
 - c. CustomWorkflowHandler.cs
 - d. CustomSecurityHandler.cs

Answer C

42. True/False – The CustomExceptionHandler is a Global event that could be used to send an email to the administrator if an error occurs.
- a. True
 - b. False

Answer A

43. True/False – The following code snippet will create a new user that has access to CMS Desk and Site Manager

```
// Create UserInfo
UserInfo user = new UserInfo();
// Set properties
user.UserName = "Alice";
user.FirstName = "Alice";
user.LastName = "Cooper";
user.FullName = "Alice Cooper";
user.Email = "alice.cooper@domain.com";
user.IsEditor = true;
user.PreferredCultureCode = "en-us";
user.Enabled = true;
// Create new user
CMS.SiteProvider.UserInfoProvider.SetUserInfo(user);
```

- a. True
- b. False

Answer B

44. Which of the following features are available when using a custom document type?
(Select all that are correct)
- a. Have alternative forms
 - b. Have transformations
 - c. Have page templates
 - d. Have custom fields

Answer A, B, C, D