# Kentico Xperience
# Certified developer exam.

## Preparation guide

# Table of Contents

# Preface

To prepare for the Kentico Xperience 13 Certified Developer Exam sufficiently, please study this Preparation guide thoroughly in conjunction with the [product documentation](#) and other resources available online at [https://devnet.kentico.com](https://devnet.kentico.com).

**Please note that our training courses do not fully prepare you for the exam.** Passing the exam requires theoretical background and understanding of the product's features and functionality, practical experience and a high level of familiarity with the product itself. Therefore, we recommend completing a project on Kentico Xperience before taking the exam.

To pass the exam and be recognized as a Kentico Xperience expert, you are expected to have extensive experience in the following areas:

- Designing, developing, and maintaining Kentico Xperience websites using both MVC and Portal Engine development models

- ASP.NET and ASP.NET MVC 5 development and the intricacies of the .NET Framework

- Using MS SQL database management language

- Creating data-driven web user interfaces

If you pass the Exam and gain acknowledgement for being a Certified Kentico Developer, then you have successfully proven your skills and set yourself apart from the everyday developer. Earning your certification is a mark of approval and distinction that builds your credibility, makes you more marketable, and gives you a competitive advantage over the other developers you will encounter in your career.

# Certified exam

The Kentico Xperience Certified developer exam is securely administered online through the training portal at https://xperience.training.kentico.com. It's structured as a short „course" in which the exam itself is the last page of the course.

Basic facts:

- The exam consists of 50 questions.

- You have 90 minutes to complete the exam.

- The exam consists of single answer questions.

The exam is an open-book test—you may use any resource that you find helpful (have Kentico Xperience running locally, have the product documentation open, etc.) **except for** another person. You must take the exam individually; sharing or cheating will **not** be tolerated and disqualify your current and future exam attempts.

## Exam topics

The exam covers **several key areas** from both the theoretical background and understanding of Kentico Xperience, its features and functionality.

The topic areas include data storage options, data structure design and presentation or development environment, and other areas. Before the exam, you will have an opportunity to refresh your knowledge before taking the exam. (See some useful links about the topics at the end of this guide, you can find the same content in the exam itself.)

## Sample test

The certification course contains **a set of sample questions** to assess your skills in answering questions on the Kentico Xperience Certified developer exam. The sample questions are based on real questions from the exam.

The sample questions in the sample test (available in the certification exam course) will help you answer the questions,
*"If the sample questions are like the real questions on the Kentico Xperience Certified developer exam, how will I do? Do I have sufficient knowledge and experience to pass the exam?"*

You can then use this information to hone your skills and focus on the areas where you need more understanding and experience before taking the exam.

# Certified developer exam policies

## Score Calculation

To pass the Kentico Xperience Certified developer exam, **you need to achieve at least a 70% score.**

The testing and scoring process is confidential. Completed exams are not returned, and the answers (whether correct or incorrect) are not provided to tested candidates.

## Exam Retake Policy

If you do not achieve the minimum passing score of 70 % on the exam the first time, you must wait at least 24 hours before retaking the exam. You can purchase a new voucher through the Kentico Xperience developer certification page.

If you do not achieve the minimum passing score the second time, you must wait at least 30 days before retaking the exam for the third time. A new voucher also has to be purchased through the Kentico Xperience developer certification page.

For fourth, fifth, and any subsequent retakes, there is a 30-day waiting period. You are allowed an unlimited number of attempts as long as the 30-day waiting period is withheld.

Kentico Software company does not provide any refunds for failed exams.

## Candidate Ban

If you violate any testing rule or any exam policy, you may be permanently prohibited from taking Kentico Xperience Certified developer exam.

Examples of such misconduct or misuse include, but are not limited to, the following:

- Violating the time-frame for exam retakes,
- Providing or accepting improper assistance,
- Copying, publishing, disclosing, distributing, or otherwise sharing the exam content and the test questions and answers, whole or in part, in any form or by any means, verbal or written, electronic or mechanical, for any purpose.

## Appeal Process

You may appeal the ban by submitting an appeal to certification@kentico.com.

The Kentico Xperience training team will review all submitted appeal requests, conduct an investigation of each specific case, and communicate directly with you regarding the investigation and final appeal decision results.

# Exam Consultation

If you are unsure why you have not passed the exam or would like to go through the areas you have not answered correctly with a specialist in the given area, you can request an exam consultation.

You can request an exam consultation if you have achieved at least a 50% score in your failed exam attempt.

## How to Request an Exam Consultation?

**Make your request within five days** following the day you have received this notification. The consultation is a paid service that costs **one consulting credit,** which you can purchase using a payment gate or contact your sales representative. The consultation process takes up to 5 business days upon successful payment. If you find a wrong question or answer in the exam, you will get a refund for the consulting credit. If you want to retake the exam, do not register for the second exam attempt before the Kentico Xperience training team confirms your exam consultation request.

# Certified exam topic areas: useful links

The exam covers several key areas to develop an application using both .NET Core and .NET MVC 5 using the 4.8 framework. You can use the following links to refresh your knowledge before taking the exam. (Keep in mind that the links do not cover all the knowledge you need to master to pass the exam.)

## Xperince data storage options

This section tests your ability to design Kentico websites by choosing the right storage option. You are required to understand the differences between all available storage options (e.g., Pages, Custom tables, Custom classes, Page builder widgets, etc.) as well as their limitations.

Useful links

- [Planning your data structure](#)
- [Planning content management](#)
- [Identifying data structure](#)
- [Defining website content structure](#)
- [Working with pages](#)
- [Managing custom tables](#)
- [Creating custom modules](#)
- [Configuring system providers](#)

# Kentico Xperience data structure design

This section tests your understanding of Kentico Xperience data structures (e.g., tables, views, stored procedures, etc.) and your ability to choose the most suitable approach to custom development.

**Useful links**

- [Data structure and objects](#)
- [Choosing the format of page content](#)
- [Page database structure](#)
- [Editing system tables](#)

# Kentico Xperience development models

This section tests your knowledge of the differences between and basics of Xperience development models. You are expected to understand the pros and cons of each approach.

**Useful links**

- [MVC development overview](#)
- [Developing websites using ASP.NET MVC 5](#)
- [Developing websites using ASP.NET Core](#)

# Kentico Xperience features

This section tests your understanding of what's available in the out-of-the-box solution and how to map your project requirements to Xperience features.

**Useful links**

- [Mapping requirements to Kentico features](#)
- [Best practices for customization](#)
- [Kentico Xperience routing](#)

# Data presentation

This section tests your understanding of different data presentation techniques, data retrieval options, and best practices for displaying media files.

### Useful links

- [Displaying content in MVC websites](#)
- [Managing responsive images](#)
- [Page builder development](#)
- [Form builder development](#)
- [Developing page templates](#)
- [Building website navigation](#)

# Kentico Xperience development environment

This section tests your knowledge of developing in a team and configuring the environment to allow for team collaboration.

### Useful links

- [Developing in a team](#)
- [Preparing your environment for team development](#)
- [Setting up continuous integration on the website](#).

# Kentico Xperience API

This section tests your ability to understand Kentico API and best practices for writing custom code, such as performance optimization and code protection against security vulnerabilities.

**Useful links**
- [Database table API](#)
- [Working with pages in API](#)
- [Developing secured website](#)
- [Using Xperience API externally](#)
- [Macro syntax](#)
- [API examples](#)

# Kentico Xperience customization and configuration

This section tests your knowledge of different Kentico customization options and the ability to use the right customization in certain scenarios.

**Useful Links**
- [Xperience Custom development](#)
- [Extending the administration interface](#)
- [Configuring Xperience](#)

# Kentico Xperience Troubleshooting Tools and Techniques

This section tests your ability to troubleshoot Kentico Xperience applications and your knowledge of debugging tools and techniques. Additionally, you are expected to know the most common issues that can occur in Kentico Xperience, their causes, and possible solutions.

**Useful links**
- [Troubleshooting websites](#)
- [Validating website code and accessibility](#)

# Kentico Xperience Optimization

This section tests your understanding of techniques used to optimize website performance on both server and client sides. You are expected to understand the differences between all available caching options, proper usage of cache dependencies, best practices for page builder widgets configuration, and much more.

## Useful links

- [Optimizing performance of MVC sites](#)
- [Troubleshooting Kentico performance](#)

# Kentico Xperience deployment

This section tests your knowledge of Kentico Xperience deployment approaches, available tools, and steps to deploy your solution in different environments properly.

## Useful Links

- [Deploying websites](#)
- [Deploying Xperience project](#)

# Kentico Xperience maintenance

This section tests your knowledge of various maintenance tasks that ought to be performed during a standard life cycle of a website project, such as upgrading, hotfixing, and cleaning tasks.

## Useful Links

- [Maintenance in Kentico](#)
- [Maintaining](#)
- [KInspector](#)
- [Upgrading to Kentico Xperience 13](#)
- [Migrating an Xperience ASP.NET MVC 5 project to .NET Core](#)