Oro Certification Outline

Oro Developer Certification is a process that verifies Oro developers' knowledge in most areas of development. They can be granted the Oro Certified Developer badge or certificate if they pass the certification exam.

The exam includes questions from areas typically configured by application administrators or customized by developers. The developer taking the exam has to know how to configure the application, efficiently use built-in features and customize them on the code level to implement functionality that cannot be achieved with the out-of-the-box configuration.

The certification consists of two scopes, functional and technical, each containing 20 questions. The developer has to answer at least 75% of questions from each scope to get certified. The exam includes questions both from Community and Enterprise versions.

The **Functional scope** covers general concepts and out-of-the-box functionality. It includes questions related to general development concepts and environment, functional questions about the configuration of features, and basic technical questions that do not require in-depth knowledge of the Oro core implementation. These topics are covered in the Oro Fundamentals and Oro Commerce training.

The **Technical scope** requires in-depth knowledge of the Oro core implementation. It includes questions related to typical customizations done for many customers. These

are functional questions that cover different ways of using the built-in functionality and technical questions that verify the knowledge of customization of various application parts. Usually, the developer has to have 2+ years of Oro customization experience to answer these questions.

Each of these scopes includes questions from multiple areas described above. Some of these questions are strictly functional, and the developer taking the exam must answer questions on configuring the application without touching the code. Other questions may require technical knowledge, including configuration files, interfaces, entities, events, etc.

Table of Contents:

Oro Fundamentals
- Development Environment
- General Concepts
- Testing and Code Review
- Extend Functionality with Bundles
- Entities and Migrations
- Datagrid
- Menu
- CRUD
- Entity Validation
- Search
- Security and ACL
- Import and Export of Entities
- Workflows
- API
- Integrations
- Message Queue
- Reports and Segments
- Dashboard
- Activities

OroCommerce
- Storefront and Websites
- Themes and Layouts
- Customer Entities
- Products
- Master Catalog
- Web Catalog
- Pricing
- Promotions and Discounts
- Inventory
- Taxes

- Shopping Lists
- RFQs and Quotes
- Checkout
- Order
- Shipping and Payment Methods

OroCRM

- Accounts and Contacts
- Leads and Opportunities

Oro Fundamentals

Development Environment

Questions related to the PhpStorm IDE and debugging with XDebug.

General Concepts

Questions about the Oro application concepts, architecture, and external dependencies.

Testing and Code Review

Questions about various types of automated tests and the code review flow.

Extend Functionality with Bundles

Questions about using standard Symfony features in the Oro applications (e.g., DI or templates).

Entities and Migrations

Questions on creating and configuring entities and writing migrations.

Datagrid

Questions about creating, configuring, and rendering datagrids in various places.

Menu

General questions about customizing menus.

CRUD

Questions related to creating and customizing entity index, view, create, and edit pages.

Entity Validation

Questions about the customization of entity validation.

Search

Questions on adding and customizing search index data in the back-office.

Security and ACL

Questions about the security layer and ACL implementation in Oro and how to check them in various places.

Import and Export of Entities

Questions covering the architecture and details of built-in import and export implementation.

Workflows

Questions about the workflow architecture, configuration, and how workflows can be used in Oro applications.

API

The questions in this area cover API architecture, configuration, and typical ways to use it.

Integrations

Questions about integration flow, structure, and configuration.

Message Queue

Questions related to the message queue, message consumer, and jobs.

Reports and Segments

Questions on how to configure and use reports and segments in various situations.

Dashboard

Questions on how to configure and customize dashboards in the back-office.

Activities

Questions about emails, notes, calendar events, calls, tasks, contact requests, cases, comments, and attachments.

OroCommerce

Storefront and Websites

Questions cover differences between the storefront and back-office and website usage.

Themes and Layouts

Questions about the theme and layout structure and configuration.

Customer Entities

Here the developer has to answer various questions about customers, customer users, customer user roles, customer groups, and customer visitors.

Products

Questions about product entities, product configuration, product attributes, and website search index.

Master Catalog

Questions about product-to-catalog relation, fallbacks, and general master catalog functionality.

Web Catalog

Questions covering web catalog entities, relations, restrictions, and variants.

Pricing

Here the developer has to answer various questions about prices and price lists, including parameters, configuration, relations, pricing strategies, and pricing storage.

Promotions and Discounts

Questions about different ways to organize discounts, promotion parameters, configuration, strategies, and coupons.

Inventory

Questions related to inventory levels, inventory options, warehouses, and configuration.

Taxes

Questions on tax entities and configuration.

Shopping Lists

Questions covering the use of shopping lists and general shopping list configuration.

RFQs and Quotes

Questions covering different use cases for RFQs and Quotes and their configuration and custom pricing.

Checkout

Questions about different ways to start the checkout, checkout types, parameters, configuration, and workflow.

Order

Questions about order parameters, relations, pricing, the complete sales flow, and the quick order form.

Shipping and Payment Methods

Questions about the shipping and payment method configuration, rules, relations, restrictions, and expressions, as well as questions about the built-in shipping and payment methods.

OroCRM

Accounts and Contacts

Questions on how accounts and contacts are used to build the CRM part of OroCommerce. This section also includes questions about sales customers.

Leads and Opportunities

Questions to elicit knowledge of sales processes from the CRM point of view. This section covers lead and opportunity use cases, parameters, and workflows.