

DEVELOPMENT ON THE CREATIO PLATFORM CORPORATE TRAINING






Who should take this course: This training program is intended for developers who are just starting their work with Creatio platform and require basic knowledge on configuring custom solutions, as well as knowledge on the web service deployment and accomplishing of complicated tasks on the platform.

What to expect: Participants will receive basic knowledge on the Creatio architecture, deployment and administration. Participants will also study Creatio development environment deployment, integration with a version control system and using the file system for development. Finally, participants will learn how to set up Creatio configurations, create new objects, lookups, pages, sections, details and program server and client logic. Business process development and typical customizations using JavaScript will be covered as well.

Course duration & format: The training takes place over 2 days with a total of 8 hours each session. In-person or online.

Duration	Topic
DAY 1. OVERVIEW AND UI CUSTOMIZATION BASICS	
15 minutes	Introduction
15 minutes	Licensing the training participant users. Demo and commercial mode.
1 hour 15 minutes	Basic administration for developers <ul style="list-style-type: none"> · Introduction · Adding users · Types of user roles: organizational and functional · User membership in roles, connections between roles · Administration of objects by operations, records, columns · Operations permissions · Typical mistakes of access permission setup
25 minutes	Creatio architecture <ul style="list-style-type: none"> · Creatio infrastructure: application server, DBMS, Redis session storage server, SVN · Application server structure, WebAppLoader and WebApp · Fault tolerance options · Advantages of the cloud deployment option
15 minutes	Coffee break
40 minutes	Deploying local development environment <ul style="list-style-type: none"> · System requirements · Setup procedure · Application folder structure · Web.config setup. Common setup issues and how to resolve them · Development in the file system
40 minutes	Logic levels of interaction with user <ul style="list-style-type: none"> · Database · Server core · Client core · Configuration
20 minutes	Creatio packages. Workspaces <ul style="list-style-type: none"> · Packages and their purpose · Object properties and structure · Package primary components: schemas, external assemblies, data, SQL scripts · Package dependencies. Recommendations on setting up dependencies
15 minutes	SVN integration setup <ul style="list-style-type: none"> · Connecting a local folder · Registration of SVN repositories · SVN integration FAQ
15 minutes	Coffee break

DEVELOPMENT ON THE CREATIO PLATFORM CORPORATE TRAINING

Duration	Topic
30 minutes	Workshop: creating a new package and storing in SVN 
10 minutes	Schemas, metadata, code generation <ul style="list-style-type: none"> · General structure · Schemas. Creating and editing different types of schemas · Metadata · Resources · Core generation and compilation
1 hour	Lunch
25 minutes	Q&A. Practical assignment: creating users, roles and access permission setup. Creating a new package. 
40 minutes	Creatio data model. Configuration objects <ul style="list-style-type: none"> · Objects and their structure · Object designer · Object components · Relationships between objects and database tables Workshop: creating a lookup object using the object designer 
20 minutes	Data binding <ul style="list-style-type: none"> · Introduction to data binding · Data binding setup specifics · Common data binding errors Workshop: binding a registered lookup and its contents 
15 minutes	Coffee break
15 minutes	Handling object events
15 minutes	Object replacement mechanism Workshop: creating a replacing object 
30 minutes	Q&A. Homework assignment: creating objects, using of replacing objects

DAY 2. DEVELOPMENT OF SERVER LOGIC, WEB SERVICES, INTEGRATIONS AND REPORTS

10 minutes	Q&A
40 minutes	Reading data. Working with EntitySchemaQuery <ul style="list-style-type: none"> · EntitySchemaQuery purpose and operation · Root schema. Direct and reverse joins · ESQ properties · ESQ access permissions · ESQ and caching · Adding columns, joining schemas, filtering
20 minutes	Workshop: applying server ESQ in C# 
10 minutes	Workshop: applying client ESQ in JavaScript 
20 minutes	Alternative ways of accessing data (Select, Insert, Delete and Update classes, using of CustomQuery and StoredProcedure classes)

DEVELOPMENT ON THE CREATIO PLATFORM CORPORATE TRAINING

Duration	Topic
20 minutes	Q&A
15 minutes	Coffee break
50 minutes	Introduction to business process engine <ul style="list-style-type: none"> · Processes and process schemas · Process execution modes · Creating a process using the designer · Process elements that interact with users · Process debugging
20 minutes	Introduction to the technologies used in the client <ul style="list-style-type: none"> · AMD concept Modules · Module definition · Client module types · Creatio client module specifics
20 minutes	MVVM template and its implementation in Creatio <ul style="list-style-type: none"> · MVVM operation principle · Binding mechanism. Binding properties and events · Module messages. Working with sandbox Message subscriptions and publishing · Data exchange between the modules
10 minutes	Client schemas. Client schema designer <ul style="list-style-type: none"> · Client schemas and their structure · Client schema types · Client schema designer
15 minutes	Coffee break
40 minutes	Typical configuration tasks <ul style="list-style-type: none"> · Adding new fields to pages · Adding actions and buttons to sections and pages Workshop: resolving common configuration issues 
1 hour	Lunch
40 minutes	Typical configuration tasks <ul style="list-style-type: none"> · Implementation of calculated fields on pages · Validation of field values · Applying business rules · Filtering lookup field values Workshop: resolving common configuration issues 
15 minutes	Coffee break
1 hour	Transition of changes between environments. FAQ and common errors. Homework assignment. Q&A