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Sign up

Semarchy xDM Training

3 days (21 hours)

Overview

Semarchy xDM is an MDM platform for modeling, governing, and publishing reliable master data (customers, products, suppliers). This training helps you accelerate the implementation of an MDM hub, reduce duplicates, and ensure data quality for BI, CRM, and ERP applications.

You will learn to design an xDM model, configure quality rules, matching, and survivorship, and then orchestrate validation workflows and publication to target systems. The focus is on governance best practices, traceability, and exception handling.

The approach is hands-on: guided workshops, demos, and end-to-end exercises based on a “Product” use case. Deliverables: xDM model, validation rules, deduplication process, validation workflow, publication exports/APIs, and a production deployment checklist.

Like all our training courses, this one will introduce you to **the latest stable version** of the technology and its new features.

Objectives

- Model an MDM domain in Semarchy xDM (entities, relationships, constraints).
- Configure data quality rules and controls.
- Set up matching, merging, and survivorship.
- Build validation workflows and manage exceptions.
- Publish data to targets (exports, APIs) and track changes.

Target audience

- Data engineers / data integrators
- Data stewards / data quality managers
- Data architects / IT architects
- MDM project managers

Prerequisites

- Basic knowledge of data modeling (entities, keys, relationships)
- Basic SQL and understanding of DBMS
- General knowledge of ETL/ELT and data exchange
- Basic understanding of governance and repositories (MDM, RDM)

Technical prerequisites

- Windows 10/11, macOS, or Linux (recent browser)
- Access to a Semarchy xDM instance (training environment) and creation permissions
- A text editor and an SQL client (optional) for verifying data

Semarchy xDM Training Agenda

[Day 1 - Morning]

Discover Semarchy xDM and the fundamentals of MDM

- Semarchy xDM positioning: MDM, governance, use cases (Customer, Product, Repositories)
- Architecture and components: xDM, database, Application Builder, workflows
- Key concepts: Hub, Model, entities, attributes, relationships, validations
- Data lifecycle: integration, enrichment, validation, publication
- Hands-on workshop: Getting started with the environment and exploring an existing xDM application.

[Day 1 - Afternoon]

Modeling a repository: entities, relationships, and quality rules

- Creating a model: entities, data types, constraints, and default values
- Defining relationships (1-N, N-N) and their impact on navigation and screens
- Implement validation rules and completeness/consistency checks
- Configuring value lists (LOVs) and code repositories
- Hands-on workshop: Modeling a “Product” repository (Product, Category, Brand) with validations.

[Day 2 - Morning]

Building the application: screens, forms, and search

- Application Builder principles: navigation, pages, components
- Designing forms: sections, fields, display rules, input assistance
- Configuring search: filters, facets, sorting, views, and lists
- Managing security: roles, permissions, rights by entity and actions
- Hands-on workshop: Create view/edit screens and an advanced search for the Product repository.

[Day 2 - Afternoon]

Workflows and governance: validation, tasks, and auditing

- Workflow concepts: statuses, transitions, assignments, SLAs
- Set up a creation/modification process with validation (contributor, data steward)
- Configuring notifications and task management
- Traceability: audit, history, comments, and supporting documents
- Hands-on workshop: Implement a “Submission > Validation > Publication” workflow on Product.

[Day 3 - Morning]

Data integration: loads, mappings, and validations

- Integration strategies: files, databases, APIs, initial vs. incremental loading
- Configuring a load: field mapping, simple transformations, error handling
- Input quality controls: rejections, quarantines, anomaly reports
- Management of associated reference sets (LOVs) and load dependencies
- Hands-on workshop: Import a Products CSV file, handle errors, and rerun a corrected load.

[Day 3 - Afternoon]

Publication, operation, and project best practices

- Configuring publication: output views, extraction, and consumer exposure
- Monitoring and operations: logs, processing tracking, quality metrics
- Modeling best practices: performance, scalability, naming conventions
- Lifecycle: versions, DEV/TEST/PROD promotion, packaging, and deployment
- Hands-on workshop: Publish the Product Repository and prepare a production deployment plan (checklist).

Target Audience

This training is designed for both individuals and companies—large or small—that wish to train their teams in new advanced IT technologies or to acquire specific professional knowledge or modern methods.

Entry-level assessment

The pre-training assessment complies with Qualiopi quality standards. Upon final registration, the learner receives a self-assessment questionnaire that allows us to evaluate their estimated proficiency in various types of technologies, as well as their expectations and personal goals for the upcoming training, within the limits imposed by the selected format. This questionnaire also allows us to anticipate certain connection or internal security issues within the company (intra-company or virtual classroom) that could pose challenges for monitoring and ensuring the smooth running of the training session.

Teaching Methods

Practical Course: 60% Practical, 40% Theory. Training materials distributed in digital format to all participants.

Organization

The course alternates between theoretical input from the trainer, supported by examples and reflection sessions, and group work.

Assessment

At the end of the session, a multiple-choice questionnaire is used to verify that the skills have been properly acquired.

Certification

A certificate will be issued to each trainee who has completed the entire training program.