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Advanced Semarchy xDM Training

2 days (14 hours)

Overview

Semarchy xDM enables the design of complex, customized Master Data Management (MDM) applications tailored to data governance requirements. With its Application Builder, consolidation rules, workflows, and configurable interfaces, the platform facilitates the implementation of reliable and scalable data repositories.

Our Advanced Semarchy xDM training will enable you to go beyond standard modeling to design MDM applications that address complex business scenarios, with a user experience tailored to your organization's roles and processes.

You will learn how to structure rich models and configure relationships, quality rules, data enrichment, and matching and consolidation mechanisms. You will also master the customization of forms, collections, navigation, and search.

By the end of the training, you will be able to set up data management workflows, secure access, prepare integrations with APIs, and ensure reliable deployments across your environments.

This training also covers the validation, diagnostic, and industrialization practices necessary to build maintainable, high-performance, production-ready MDM applications.

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

Objectives

- Design a Semarchy xDM architecture tailored to a complex MDM domain
- Configure advanced quality, matching, and consolidation rules
- Customize interfaces and management workflows in Application Builder
- Implement collaborative workflows and role-based permissions
- Prepare for the integration, validation, and deployment of an MDM application

Target Audience

- Data Architect
- Data Engineer
- MDM Consultant
- Semarchy xDM Administrator
- Integration Developer

Prerequisites

- Proficiency in the fundamentals of Semarchy xDM and data model design
- Experience designing relational data models
- Knowledge of MDM principles, data quality, and data governance
- Basic understanding of SQL querying and REST API communication

Technical Requirements

- Computer running Windows 10 or 11, macOS, or Linux, with at least 8 GB of RAM
- A modern web browser, such as Google Chrome, Microsoft Edge, or Mozilla Firefox
- Access to a Semarchy xDM training environment with design permissions in Application Builder
- Postman client or equivalent tool for REST integration exercises
- Stable internet connection allowing access to the training environment

Agenda for our Advanced Semarchy xDM Training

[Day 1 - Morning]

Advanced Architecture of an MDM Application

- Analysis of complex MDM challenges, data domains, responsibilities, and governance rules
- Designing a scalable logical model with entities, attributes, relationships, and business hierarchies
- Selecting entity types and structuring repositories, reference data, and business objects
- Modeling dependencies, cardinalities, functional keys, and integrity constraints
- Organizing the model to promote maintainability, reusability, and functional evolution

- Hands-on workshop: Designing the logical model for a complex partner repository including organizations, contacts, addresses, and classifications

[Day 1 - Afternoon]

Quality, consolidation, and business customization

- Configuring validation rules, consistency checks, and management of rejected data
- Implementing data enrichers to standardize, complete, and ensure the reliability of incoming data
- Designing matching strategies, reconciliation thresholds, and duplicate handling
- Configuring consolidation, survival rules, and golden record management
- Customizing views, forms, collections, and search components in Application Builder
- Hands-on workshop: Configuring a reconciliation and consolidation process with quality rules on the designed repository

[Day 2 – Morning]

Workflows, security, and user experience

- Designing data-driven workflows for data creation, correction, validation, and certification
- Configuring steps, user tasks, transitions, notifications, and assignment rules
- Managing roles, permissions, and access restrictions for applications and features
- Tailoring user flows to the profiles of data stewards, contributors, and approvers
- Optimizing navigation, filters, saved searches, and the display of business information
- Hands-on workshop: Creating a partner validation workflow with assignment, quality control, and return for correction

[Day 2 - Afternoon]

Integration, standardization, and deployment

- Overview of SQL and REST API integration mechanisms for loading, publishing, and querying data
- Using data views, named queries, and load processes for application interactions
- Preparing deployment checks, validating the model, and analyzing design errors
- Managing releases, exporting content, and controlled promotion between environments
- Diagnosing processes, monitoring workflows, and best practices for operating an MDM application
- Hands-on workshop: Finalize the application, test a REST request, validate the model, and prepare its deployment to a target environment

Target Audience

This training is intended for both individuals and companies—large or small—that wish to train their teams in a new, advanced IT technology or to acquire specific business knowledge or modern methods.

Assessment at the Start of Training

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 level across 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

Hands-On Training: 60% Practical, 40% Theoretical. Training materials distributed in digital format to all participants.

Organization

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

Assessment

At the end of the session, a multiple-choice quiz is administered to verify that participants have successfully acquired the skills.

Certification

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

Training organization registered under number 11 75 54743 75. This registration does not constitute state accreditation.
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