Course : Tools for data governance

Practical course - 3d - 21h00 - Ref. GDP
Price : 2010 € E.T.

4,9 / 5

NEW

La gouvernance des données répond à des défis complexes. Pour être efficace, elle a besoin d'être outillée pour apporter des services pertinents aux différents acteurs, notamment par le catalogue de métadonnées, son principal outil. Les métadonnées sont toutes les informations créées automatiquement ou conçues par les professionnels de la data. Ce catalogue gagne à être fortement automatisé puis augmenté par l'IA et en particulier par un LLM pour atteindre une certaine efficacité. Son intégration dans votre écosystème technique est essentielle pour capter automatiquement les métadonnées.

Teaching objectives

At the end of the training, the participant will be able to:

- Understanding the role of metadata for effective governance (DAMA)
- Understanding the metadata ecosystem in the information system
- Know the tools that manage metadata repositories
- Knowledge of architecture tools and metadata repositories related to governance tools
- Get to know a panorama of heritage knowledge tools and their extension via AI and LLM.
- Identify criteria for building a catalog evaluation grid adapted to a given context
- Identify the impact of AI on governance and the role of governance for AI

Intended audience

Anyone interested in building data governance tools around an effective data catalog.

Prerequisites

Completion of the Data Governance course (ref. GDD).

PARTICIPANTS

Anyone interested in building data governance tools around an effective data catalog.

PREREQUISITES

Completion of the Data Governance course (ref. GDD).

TRAINER QUALIFICATIONS

The experts leading the training are specialists in the covered subjects. They have been approved by our instructional teams for both their professional knowledge and their teaching ability, for each course they teach. They have at least five to ten years of experience in their field and hold (or have held) decision-making positions in companies.

ASSESSMENT TERMS

The trainer evaluates each participant's academic progress throughout the training using multiple choice, scenarios, hands-on work and more.
Participants also complete a placement test before and after the course to measure the skills they've developed.

TEACHING AIDS AND TECHNICAL RESOURCES

• The main teaching aids and instructional methods used in the training are audiovisual aids, documentation and course material, hands-on application exercises and corrected exercises for practical training courses, case studies and coverage of real cases for training seminars.
• At the end of each course or seminar, ORSYS provides participants with a course evaluation questionnaire that is analysed by our instructional teams.
• A check-in sheet for each half-day of attendance is provided at the end of the training, along with a course completion certificate if the trainee attended the entire session.

Practical details

Teaching methods

Active

TERMS AND DEADLINES

Registration must be completed 24 hours before the start of the training.

ACCESSIBILITY FOR PEOPLE WITH DISABILITIES

Do you need special accessibility accommodations? Contact Mrs. Fosse, Disability Manager, at psh-accueil@orsys.fr to review your request and its feasibility.

Course schedule

1 Introduction: data governance and the data catalog

- Defining data governance
- Governance ROI and project TTM
- Data governance, data management and the DAMA framework
- Role and scope of governance: compliance, quality and knowledge of assets
- The role of governance in the development of AI use cases
- A strong link between data governance and the data catalog

Case study

Carte des acteurs de la data et leur rôle dans la gouvernance. Analyse du ROI de la gouvernance sur 2 cas d'usage. Échange.

2 Metadata

- Metadata definition
- Some examples of the data life cycle
- Multiple metadata
- Metadata created to describe data functionally
- Metadata created by systems and collectable
- Metadata management: one or more metadata repositories?

Case study

Identify and model metadata to comply with security requirements and personal data regulations.

3 Heritage knowledge through metadata

- Asset knowledge and management through metadata
- Knowledge of data sources and link with architecture
- Knowledge of the data (datasets) available on a data platform
- Identification of personal data, anonymized or not on a data platform
- Technical and functional descriptions (business objects, processes, definitions) of data on a data platform
- Knowledge of the availability and freshness of data on a data platform
- Knowledge of the platform's data quality characteristics
- Knowledge of the security and regulatory characteristics of data on a platform

Case study

Model a first version of the metadata model for its future catalog. Consult your CISO for specific needs (possibility of having data samples or quality elements described by data in your catalog).

4 Heritage knowledge tools

- Metadata catalog to talk about, share and promote data
- Data catalog and data models, data dictionary, glossary, thesaurus
- Structured and unstructured data in a catalog
- Data catalog features
- A wide range of players' needs
- Tribal knowledge
- Updating these different elements of platform data knowledge
- Data catalog or data governance platform
- Overview of data catalog and governance platform tools

Case study

Development of a tool evaluation grid, then choice of functionalities to be implemented for the case study company.

5 Automation and increased knowledge of assets

- Automation and increased knowledge of assets
- Challenges of automation and augmentation
- Introducing the potential of an LLM
- Pooling existing metadata and organizing architecture tools
- Automate exchanges between architecture tools and data catalogs
- Automated updating of the technical metadata repository available on platforms (physical data model, field descriptions, etc.).
- Automate and augment dataset descriptions and content from context (data models, dictionaries, business processes, etc.).
- Automation and increased identification of personal data
- Automate and increase the application of privacy rules to data from a single context
- The impact of AI on governance

Case study

Un standard pour les échanges de données avec les outils d'architecture.
L'usage d'un LLM et du NLP pour décrire des données et des datasets à partir d'une base de connaissance.

6 Other metadata tools: data lineage, data observability and quality

- Definition and example of associated metadata
- The challenges of data lineage
- Quality and regulatory traceability requirements (BCBS239)
- Data lineage automation: success and limitations
- Data quality: a complex issue
- Description of the data quality of a data platform
- Quality test repository shared by all
- Data observability and metadata
- Link to data catalog and data observability tool
- Tools and platforms available

Case study

The links between catalogs and data observability: how can we monitor the availability of data on a data platform? How can we share this information with business lines and data engineers?

7 Launch your data catalog project

- Identifying the players
- Understanding a data ecosystem to automate and expand
- The semantic layer prerequisite
- One size doesn't fit all: a maturity and requirements assessment grid
- First steps in an organization

Storyboarding workshops
Start with the first actions for your context

Dates and locations

PARIS LA DÉFENSE
2026 : 22 June, 21 Sep., 7 Dec.