Course : Data governance: understanding and practicing

Practical course - 3d - 21h00 - Ref. GDD
Price : 2360 CHF E.T.

★★★★ **4 / 5**

NEW

Plusieurs questions au cœur de l'actualité braquent les projecteurs sur la gouvernance des données : s'organiser pour valoriser son patrimoine de données alors que l'intelligence artificielle (IA) apparaît comme une consommatrice avide de données, trouver un ROI aux projets et aux data product, dépasser le stade du POC et industrialiser, prendre en compte et faire appliquer les réglementations qui s'imposent... Pour répondre à ces défis, la gouvernance des données est le domaine qui propose une organisation humaine et un cadre de bonnes pratiques pour gérer les données.

◎ Teaching objectives

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

- ✔ Understanding data governance
- ✔ Understand the many players involved in data: challenges, roles, responsibilities, profiles and activities within processes
- ✔ Understand the different possible organizations
- ✔ Aligning business, IT and data challenges
- ✔ Implement data governance to manage data as assets
- ✔ Develop a data governance culture within your organization

Intended audience
Anyone interested in setting up an organization and processes around data.

Prerequisites
General knowledge of information systems or data-related fields (MDM, data architect, modeler, data engineer, business/data analyst....)

Practical details
Teaching methods
Active

Course schedule

1. Introduction

- Defining data governance
- Role and scope: knowledge of assets, regulations and quality
- Strategic issues for the company and the ROI of governance
- Governance models: centralized, federated, decentralized
- Data governance within the information system and for AI: data/IT/IA governance
- Governance within data management
- Managing data as assets: the impact of big data and personal data regulations on data asset management

Case study
Presentation of the historical players in the information system managing data and recruitment of a new player for personal data. Group discussion.

2. Data governance at the heart of data management

- Defining the data life cycle
- Definition of data management and its areas of expertise
- DAMA presentation "Body of Knowledge"
- Data architecture, modeling, data mesh
- Quality
- Master data management - managing data repositories
- Asset knowledge and management
- Safety and regulations
- Data storage and retrieval
- Data maturity framework

Case study
Case studies: security and regulations at the heart of governance project start-ups, assessment of an organization's data maturity. Exchange on the impact of Big Data on DAMA usage.

3. The new players: CDOs and data governance officers

- Chief data officers: profiles, roles, responsibilities, positioning within the organization
- Data governance and data asset managers
- Players driving the transformation of data organization
- Creation of a data office and choice of organization (centralization or not)

Case study
Recruit a CDO and establish his or her position within a company.

(4) A governance framework for orientation

- Presentation of a generic data governance framework
- Overview of players, their roles and responsibilities
- Heritage knowledge and data catalog creation
- Definition of data lineage
- Regulations and contacts with regulatory authorities
- Ethical usage, a trusted and responsible player
- Business management of data access, confidentiality and security
- Quality
- Setting up a committee structure
- Training and acculturation to promote a data culture

Case study
Supporting the Data Governance Officer in his or her first few months.

(5) At the heart of heritage knowledge, business objects and modeling

- An organized and consistent terminology to describe data assets
- Structured and unstructured data
- Thesaurus, glossary, business dictionary and data modeling
- Ontologies and models: viewing, understanding and sharing a data set
- Data and metadata: definitions, standards and conventions
- Governance, enterprise architecture and data architecture
- Link between technical and business vision

Case study
Design of the data collection process and modeling for heritage knowledge.

(6) Data governance processes

- Interactions between data players within and outside projects
- Management of confidential and retention data, uses, knowledge of data assets in projects, modifications to data from sources
- Data quality management processes at data acquisition: actors and quality flows

Case study
Launch of a governance project based on heritage knowledge.

(7) The data transformation toolbox

- Data governance and organizational transformation
- Tools for transformation
- An ACTES model: strategic alignment, knowledge of assets and business model, business transformation, stakeholder commitment, security and regulation
- Data culture and data community management: levers for transformation

Storyboarding workshops
Start with the first actions for your context.