

Data Cataloguing Fundamentals for Business and Technology Professionals

Skills and expertise to help you increase your knowledge in the field of digital technologies

Digital forces are reshaping almost every industry, and you already understand the urgency for transformation. You need to look into options how Digital Disruption helps you formulate a successful, innovative strategy for what to do next.

About this workshop

Data Catalog is a fully managed and scalable metadata management service that empowers organizations to quickly discover, understand, and manage all of their data. In a nutshell planning is critical to the long-term adoption and success of a data catalog tool. In this course you will be introduced to how to work through use cases to construct a practical roadmap of data catalog growth.

Digital Transformation is a broad subject that requires **competency** across **Strategy and Vision**, **People and Culture**, **Process and Governance**, and **Technology and Capabilities**

Purpose:

The purpose of this course is to understand how to translate business needs into an actionable roadmap for the data catalog tool. In a nutshell, data accuracy, accessibility and deficiencies can lead directly to increased customer churn, reduced market share, and a tangible loss of competitive advantage.

Prerequisites:

Participants attending this course should be familiar with basic Information Technology (IT) concepts and the role of general system wide infrastructure technologies and their applications.

Optimizing Your Data Catalog Learning Plan:

Metadata is foundational to all data work and should be a top priority of a Data Governance program. Without an understanding of what data means, where it comes from, or how it's classified, it's virtually impossible to extract data's full value. A data catalog tool provides an innovative solution for powering Data Intelligence and Metadata Management with governance at the core.

But investing in a data catalog is only a first step. Optimized value can only be fulfilled when it's embedded into "business-as-usual" processes of how users work on a daily basis, creating a sustainable need and trust in the catalog as opposed to just knowing it is one of many tools available. This course is one step forward to your learning.

Unit 1 – Information Infrastructure Challenges and Data Management Methodologies

- Understanding the role of Data Scientist.
- How Does a Data Scientist Work?
- Describe Information Infrastructure and Information Infrastructure Model.
- Information Infrastructure Model.
- Archive – What is it and its importance.
- Best practices for storing data sets in an Archive.
- Information infrastructure and key challenges.
- Critical Characteristics of Information.
- Data silo's are all too Common – The Bigger Challenge.
- Understanding Data Management – The Data-driven Enterprise.
- Types of Data Management Techniques.
- Common approaches to the implementation of archiving solutions.
- Six key parts of the Data Management Process.
- Mapping Data to Business Processes using CRUD Matrix.
- The rise of the Data Lake – A small backdrop.
- Understanding the difference between ETL, ELT and Reverse ETL.
- Five ways to Optimize Data Strategy.

- Things you need to Know about Data Storage Management.
- Understanding Data Lifecycle Management.
- Data Management Challenges and
- Storage Vs Data Classification.
- Understanding Data Lifecycle Management – DLM.
- Information Lifecycle Management and an example.
- ILM – Three Storage Strategies.
- Data Classification.
- Difference between ILM and DLM.
- Understanding Data De-Duplication.
- Importance of Virtual Tape Library.
- Unit 1 Assessment.

Unit 2 – Key Fundamentals of Data Cataloguing

- Traditional Data Management Practices & Problems.
- Data Cataloguing as a way forward to Traditional Problems.
- The Data Landscape is getting highly complex with Data flowing across a Multitude of Changing Systems.
- Solution that should provide deep insight into the Data Landscape.
- What is Data Catalog – A Reference Application for Data Management.
- Data Catalog as a Way-forward to Traditional Problems.
- Essential Data Catalog Capabilities.
- The Six key components of a Data Cataloguing.
- Business Value of Data Cataloguing.
- Benefits of Central Point of Discovery and Data Transparency.
- Data Cataloguing Tools – Purpose and Functionality.
- Data Integration Tools – Purpose and Functionality.
- Data Catalog Best Practices.
- What Features to look when procuring a Data Cataloguing tool.
- Describing different types of Metadata Classifications.
- Difference between Data Cataloguing and Data Integration tools.
- What Features to look when procuring a Data Cataloguing tool.
- High-level Architecture for Data Cataloguing Tool.
- Customer Profiles for Data Cataloguing.
- Data Catalog Use Cases.
- Unit 2 Assessment.

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Data cataloguing accelerates data discovery, fosters informed decision-making, and ensures compliance for both internal and external data.

By adopting a right action plan and using the **evaluation framework**, organizations can proactively address potential data catalog challenges and get **better value** from their data assets.

About the instructor

Training will be delivered by an experienced trainer with 30+ years of career experience imparting education and training services both locally and internationally and have served international enterprise technology vendors including IBM, Fujitsu, and ICL.

Our instructor holds various industry professional certifications in the space of enterprise servers and storage technologies, Information Security, Enterprise Architecture, Blockchain, ITIL, Cloud, Virtualization, Green IT, and a co-author of 10 IBM Redbooks and have developed 70 plus courses in AIX, storage, information security and cybersecurity, and digital technologies.

The training course flow will be a mix of lectures, video demonstrations, and classroom discussions so that participants can have a detailed understanding of various components of technologies causing digital disruption.

Unit 3 – Data Cataloguing Implementation Strategies

- Understand the importance of Data Analysis and Data Management.
- Data Catalog Adoption Strategy – Twelve Key Steps.
- Build a Metadata Management Strategy and Plan.
- Develop a Data Catalog Implementation Strategy.
- Key Capabilities Required from a Data Catalog – An Essential Part of your Strategy.
- What to include in Metadata Management Strategy?
- Metadata Management Plan – Key Requirements.
- Data Cataloguing Implementation Strategy and Industry Solutions.
- Defining objectives and scope, and Stakeholder engagement.
- Policies and procedures., Roles and responsibilities.
- Integration with Existing Systems.
- Implementing your Data Catalog – Three types of approaches.
- How do you Implement a Data Catalog – A Phased-wise Approach.
- How to Set Up a Data Catalog for Data Discovery?
- Data Catalog Challenges and a Step-by-step Action Plan.
- Critical steps to secure PII against loss or compromise.
- Understand Data Classification.
- Action plan to mitigate challenges and achieve business outcomes.
- How to choose the data catalog tool to eradicate business challenges.
- Data Catalog Features that should be supported by the tool.
- Interoperability and usability for the Data Lakehouse.
- Unit 3 Assessment.

Unit 4 – Data Catalog and Data Governance Framework Fundamentals

- The importance for building a Data Governance Strategy.
- Why do Organizations need a Data Governance Framework?
- Importance of Data Governance and its Key Principles.
- Data Governance – A core component of Data Management. strategy.
- Why Data Governance Matters – Issues and Challenges.
- Who are responsible for Data Governance? Roles and Responsibilities.
- Eight Key Components of Data Governance.

- Regulatory Compliance and Data Governance Frameworks Relationship.
- How Data Governance frameworks work.
- Some of the Popular Data Governance Frameworks.
- Why Data Governance Matters – Issues and Challenges.
- The DAMA International Data Management Body of Knowledge.
- Core knowledge areas of DAMA-DMBOK.
- The DAMA International Data Management Body of Knowledge.
- Adopting the DAMA framework practically to improve data management.
- Teams responsible for implementing Data Governance.
- Best practices for creating a data governance framework.
- Building a Data Governance Plan – Key Requirements.
- Top Data Governance Tools.
- Popular data governance certifications in 2024.
- Unit 4 Assessment.

Target Audience

- Customers who want to build their knowledge in the space of Data Cataloguing and want to understand how to smartly handle the upcoming challenges associated with their growing datasets by using digital technologies.
- CXO, Digital teams, Business Technology, Business Analysts, Data Science Personals, Data Architects, Application developers and Database Managers, Audit, Risk and Compliance, Enterprise Architects, Information Security and Cybersecurity Professionals, IT Operations, Project Managers, Governance, Risk and Compliance professionals, Technical Writers, and Legal professionals with a familiarity of basic IT/IS concepts.
- Senior technology managers and business leaders who want to reskill and upskill their present set of knowledge in the space of data cataloguing.

Detail Information

Course Code	: TN209
Course Duration	: 2 Day Workshop
Course Location	: TLC Office, Customer On-site, and Online on Zoom.
Terms & Conditions	:100% payment in advance.
Course Deliverable	: Comprehensive Student Guide and Course Certificate

For additional information, please write to us at:
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*Opportunities are made,
not found*