Data Strategy & Management Training

The Data Strategy and Management Training is designed to equip participants with the knowledge and skills needed to harness the power of data for strategic decision-making and organizational success.

This training program provides trainees with a holistic understanding of data strategy and management, covering essential topics such as data governance, data collection, storage, analysis, and security. Participants will learn to develop and implement effective data strategies, ensuring that data is leveraged as a valuable organizational asset.

Learning Objectives

After completing this training, participants can enhance their data management capabilities and contribute to the efficient and effective management of data within the organization.

- Understand the fundamental principles and concepts of data strategy.
- Comprehend the roles and responsibilities of data management professionals.
- Learn best practices for data governance and how to establish effective data governance frameworks.
- Effectively utilize Azure Purview for data governance, cataloging and collaboration
- Explore data collection methods and sources and understand the importance of data integration in creating a unified and reliable data environment.
- Learn about different data storage solutions (e.g., databases, data warehouses, data lakes) and develop skills in data retrieval methods and optimization.
- Use data analysis tools and techniques to transform raw data into actionable insights. Learn how to create compelling data visualizations for effective communication.
- Understand the importance of fostering a data-driven culture within an organization and how to manage change effectively in data initiatives.
- Stay informed about emerging trends in data management, including AI/ML, IoT, and their potential impact on organizations.

Course Pre-requisites

Basic knowledge of data management concepts, familiarity with the fundamental principles and terminology of data management and terminologies is beneficial.

Course Delivery Method

This course will be delivered using PowerPoint slides for explaining concepts and Hands-on exercises and case studies, these practical components allow participant to apply their knowledge, practice skills, and gain a deeper understanding of how to implement data management practices in various scenarios.

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Course Outline

1. Introduction to Data Strategy
2. Data Governance and Compliance
3. Metadata Management
4. Data Architecture and Modeling
5. Data Quality Management
6. Data Collection and Integration
7. Data Storage and Retrieval
8. Data Analysis and Visualization
9. Cloud Computing and Data management
10. Master Data Management (MDM)
11. Future Trends in Data Management

Proposed Training Agenda:

Day 1:

- Understanding the importance of data in modern organizations
- Defining data strategy and its role in decision-making
- Aligning data strategy with business objectives
- Introduction to Data Governance
- Data Governance and Data Ethics

Day 2:

- Introduction to Microsoft Purview
- Setting up Purview and assigning roles
- Registering source and scanning metadata
- Exploring the business glossary
- Searching data catalog
- Enriching metadata

Day 3:

- Exploring data lineage
- Classification and customizations
- Discovering data estate insights
- Exploring management functionality
- Considering purview network security
- Scanning non-Azure resources and using the API
- Deployment Best Practices

Day 4:

- Data collection methods and sources
- Data integration techniques (ETL processes)
- Data warehousing and data lakes
- Data storage solutions (Relational databases, NoSQL databases, cloud storage)
- Data retrieval methods and query optimization
- Data archiving and retention policies

Day 5:

- Data analysis tools and techniques
- Data visualization tools (e.g., Tableau, Power BI)
- Creating meaningful insights from data
- Data Management Best Practices
- Data Management Tools and Technologies
- Emerging technologies and trends in data management (e.g., AI/ML, IoT)
- The evolving role of data professionals

Exam

This training prepares candidates for the Data Management Fundamentals exam covering 14 topics. There are 11 Knowledge areas, plus Data Management Process, Ethics, and Big Data.

Certificate

Candidates will receive a Microsoft Partner accredited certificate upon completion

Time Schedule

This section contains the proposed time schedule for this training.

5 working days required for training completion.

Category	No. of Days	Date
Batch A	5	Mar 4th – Mar 8th 2024
Batch B	5	Mar 11th – Mar 15th 2024
Batch C	5	Mar 18th – Mar 22nd 2024