Consulting and Training | Reach New Heights

Course Name

Advanced Data Management Training

Sector Name

Quality Management & Operational Excellence

Document Type

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Course Introduction

Whether small start-ups or corporate giants, all firms generate data. Gone are those days when the concept of data was limited only to technological firms. These days, a diverse range of businesses use data regularly to gain a better understanding of their customers, business trends, as well as to devise efficient marketing strategies.

The intense competitive sphere compels companies to become data-centred to mine valuable business knowledge. With the availability of abundant data, it becomes imperative to manage it to ensure its most advantageous utilization. This calls for Data Management that involves collecting, organising, storing, and securing this data.

What are data management and examples?

The data management process is a culmination of a combination of functions that are mutually focused to ensure that data in organisational systems is accurate, appropriate, available, and accessible.

Who can access confidential and sensitive customer information? How often are the databases reviewed for inaccuracy or errors? How

much time does it take to record a customer’s engagement/ interaction with the firm? How does the firm handle and create value from a large dataset?

What is the role of data management?

Dynamic data management needs to get to the bottom of these questions in a way that makes the most sense and enables businesses to make informed decisions. Firms that don’t engage in data management at any level fail to use their data the right way and risk becoming corporate dinosaurs.

Talent has introduced a Masterclass in Data Management to provide a foundation for its participants to develop an understanding of the multifarious world of data. The course discusses the latest trends and techniques being adopted globally by enterprises to make information-backed operational business decisions.

The course highlights data as a corporate asset and hence includes the use of different tools that will save the organisation from being burdened with unfinished data silos, insufficient data sets, and enhance the quality of data that will augment it to perform better Business Intelligence.

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Target Audience

- ✓ Quality Professionals (Managers, Engineers, Analysts) – Ensuring data accuracy, compliance, and process improvements.
- ✓ Data & Process Analysts – Using data for decision-making, Six Sigma, and Lean practices.
- ✓ Compliance & Regulatory Experts – Managing data integrity for audits and industry standards (ISO, FDA, GMP).
- ✓ IT & Digital Teams – Handling QMS data, automation, and security.
- ✓ Operations & Supply Chain Leaders – Using quality data to optimize production and supplier compliance.

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Learning Objectives

- ✓ Enable the participants to make more informed decisions backed by relevant data
- ✓ Learn techniques to make data more accessible, which will transform business processes for the better
- ✓ Inculcate relevant knowledge and encourage the evolution of insight into participants to make them a dedicated part of their data management teams
- ✓ Learning about user-friendly tools available to organise and access data
- ✓ Discuss techniques of data management such as data preparation, use of data pipelines, maintaining data catalogues, data warehousing, constructing data architecture, developing data governance, etc.
- ✓ Enable the organisations to gain a competitive advantage against the business rivals through the timely implementation of a data management strategy

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Course Outline

✓ DAY 1

Module 1: Introduction to Data Management

- ✓ Fundamental concepts: data models, data independence (physical and logical), the query optimizer
- ✓ Information storage and retrieval
- ✓ Data management cycle
- ✓ Data management process

Module 2: Database Management Systems

- ✓ Types of DBMS: relational, hierarchical
- ✓ DBMS architecture
- ✓ Application of DBMS in different sectors
- ✓ Data Abstraction
- ✓ ER Model

Module 3: Developing Data Management Strategy

- ✓ Identifying key business objectives
- ✓ Creating data processes for collecting, storing, and preparing data
- ✓ Identifying the right tools and technologies

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Course Outline

✓ DAY 2

Module 4: Data Integration

- ✓ Data warehousing
- ✓ Data migration
- ✓ Data integration techniques: manual integration, application-based integration, virtual integration
- ✓ Data integration in data mining

Module 5: Master Data Management

- ✓ What is MDM and its benefits to the organisation?
- ✓ Essential MDM capabilities
- ✓ Common MDM sources
- ✓ MDM use improves customer service, personalized marketing, etc.

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Course Outline

✓ DAY 3

Module 6: Data Governance

- ✓ Why data governance matters
- ✓ Goals of data governance
- ✓ Breaking data silos
- ✓ Components of the data governance framework
- ✓ Data stewardship

Module 7: Challenges and risks to Data management

- ✓ Combating flawed data
- ✓ Lack of data insight
- ✓ Balancing data management and transparency
- ✓ Keeping up-to-date with regulatory compliance
- ✓ Handling versatile data with varied standards

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Course Outline

✓ DAY 4

Module 8: Data security and regulatory compliance

- ✓ Data encryption
- ✓ Tokenization
- ✓ Types of data security: Access control, Authentication, backups, and recovery
- ✓ Data erasure
- ✓ Data masking
- ✓ Main elements of data security
- ✓ Data regulatory compliance

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Course Outline

✓ DAY 5

Module 9: Innovation in Data Management

- ✓ Cloud data governance
- ✓ Case study: world’s first self-driving database

Module 10: Data Management Best Practices and Latest Trends

- ✓ Artificial intelligence automates data
- ✓ Augmented data management
- ✓ Data post
- ✓ Data Fabric

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
March 21, 2027	March 25, 2027	5 days	4250.00 $	KSA , Riyadh
Aug. 2, 2027	Aug. 6, 2027	5 days	4250.00 $	UAE , Dubai
Oct. 26, 2026	Oct. 30, 2026	5 days	5950.00 $	Switzerland , Zurich
April 11, 2027	April 15, 2027	5 days	4250.00 $	Bahrain , Manama

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