

DATA MANAGEMENT AND BUSINESS INTELLIGENCE | DMBI-028

Modern Data Architecture for Managers

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Course content

Why Attend

Data architecture has evolved rapidly from traditional warehouses to data lakes, lakehouses, streaming platforms and data mesh. Managers need to understand these options to make sound investment decisions.

This Aractech course explains modern data architecture concepts in business language: storage and processing options, cloud data platforms, real-time data, data mesh and data products, governance, security and cost. Participants evaluate architecture options for a case organisation.

Course Methodology

- Concept sessions
- Case studies
- Option evaluation workshop
- Group discussions
- Planning

Course Objectives

- Explain modern data architecture concepts
- Compare warehouses, lakes and lakehouses
- Understand streaming and real-time data
- Understand data mesh and data products
- Consider governance, security and cost
- Evaluate architecture options for business needs

Target Audience

- IT and data managers
- Business leaders sponsoring data initiatives

Course content

- Enterprise architects
- Project managers

Course outline

Detailed course outline

Day-by-day outline for Modern Data Architecture for Managers.

Day 1 - Data Architecture Evolution

- 09:00-09:45 | Why architecture matters
- 09:45-10:30 | Traditional warehouses
- 10:30-11:00 | Data lakes
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Data lakes (continued)
- 11:45-12:30 | Lakehouses
- 12:30-14:00 | Exercise: Current state review

Day 2 - Cloud Data Platforms

- 09:00-09:39 | Cloud services
- 09:39-10:18 | Storage and compute
- 10:18-10:57 | Integration
- 10:57-11:00 | Analytics and AI
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Analytics and AI (continued)
- 12:05-12:43 | Vendor landscape
- 12:43-14:00 | Workshop: Platform comparison

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Day 3 - Real-Time and Data Mesh

- 09:00-09:45 | Streaming
- 09:45-10:30 | Event-driven architecture
- 10:30-11:00 | Data mesh principles
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Data mesh principles (continued)
- 11:45-12:30 | Data products
- 12:30-14:00 | Case study: Data mesh adoption

Day 4 - Governance, Security and Cost

- 09:00-09:45 | Governance in modern architectures
- 09:45-10:30 | Security
- 10:30-11:00 | Cost management
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Cost management (continued)
- 11:45-12:30 | Skills
- 12:30-14:00 | Exercise: Cost model

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Day 5 - Choosing the Right Architecture

- 09:00-09:54 | Requirements
- 09:54-10:48 | Evaluation criteria
- 10:48-11:00 | Roadmaps
- 11:00-11:30 | Coffee break
- 11:30-12:12 | Roadmaps (continued)
- 12:12-13:06 | Change management
- 13:06-14:00 | Capstone: Architecture recommendation

Seminar dates

Available seminar dates

Live dates and pricing for Modern Data Architecture for Managers generated from the course details page.

Date	Location	Format	Fee
2 - 6 November 2026	Frankfurt	Classroom	€1,875
21 - 25 December 2026	Rome	Classroom	€3,460
18 - 22 January 2027	Istanbul	Classroom	€1,978
15 - 19 February 2027	Cape Town	Classroom	€1,625
15 - 19 March 2027	Barcelona	Classroom	€2,815
19 - 23 April 2027	Paris	Classroom	€3,825
17 - 21 May 2027	Frankfurt	Classroom	€1,875
21 - 25 June 2027	Barcelona	Classroom	€2,815
19 - 23 July 2027	Frankfurt	Classroom	€1,875
16 - 20 August 2027	Rome	Classroom	€3,460

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