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COURSE BROCHURE

Data Platform Technology Trends and Adoption Roadmap Training Course

18 – 22 October 2027
Singapore

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Data Platform Technology Trends and Adoption Roadmap is a 1-week training course for technology managers and data leads who must judge which storage, streaming and processing shifts deserve investment, and it ends with each participant's technology radar and adoption roadmap. Platform choices made now fix cost, speed and flexibility for years, so separating durable shifts from passing noise has become a core leadership duty. Jupiter Prime Training delivers Data Platform Technology Trends for such leaders.

Why Data Platform Technology Trends Matter Now

Three forces shape data platform technology trends today. Vendors are merging warehouse and lake storage into lakehouse designs built on open table formats. Business units expect events to be acted on within seconds rather than overnight, pushing streaming into everyday operations. Finance teams now scrutinise consumption-based cloud bills line by line. An organisation that reads these shifts well retires duplicate stacks and funds the capabilities its users actually need; one that reads them badly locks itself into costly migrations, stranded licences and platforms its engineers cannot staff.

Who Gains Most from Data Platform Technology Trends

- Leaders accountable for the enterprise data architecture and its long-term direction
- Heads of data engineering who own ingestion, storage and processing pipelines
- Analytics leads responsible for reporting platforms and self-service access
- Infrastructure and cloud managers who carry platform spending and capacity
- Portfolio owners who decide which platform initiatives receive funding

An architecture board or platform steering group gains most when several members attend together, because they leave with one shared scoring vocabulary.

Data Platform Technology Trends Capabilities

Participants move from reading vendor announcements to scoring storage, streaming and compute options against their own workloads.

- Assess lakehouse, warehouse and lake storage designs against current workloads — platform consolidation decisions
- Weigh batch, micro-batch and event streaming patterns for latency needs — operations and product owners
- Calculate the consumption cost profile of elastic cloud compute — finance and budget holders
- Specify scoring criteria for placing technologies in adopt, trial, assess or hold rings — architecture boards
- Design a phased migration sequence with exit points and fallback options — delivery sponsors

- Communicate platform direction in plain business terms — executive committees

Key Data Platform Technology Trends Terms

- Lakehouse — a storage design that keeps files in low-cost object storage while adding table structure and transactions.
- Open table format — a published file layout that lets several query engines read and write the same tables safely.
- Event streaming — continuous capture and processing of records as they occur, rather than in scheduled batches.
- Separation of storage and compute — an architecture where data storage and processing power scale and are billed independently.
- Technology radar — a visual map placing technologies in rings that show whether to adopt, trial, assess or hold them.
- Data mesh — an organising approach where business domains own and publish their data as products for others to use.

Data Platform Technology Trends Day by Day

Day 1: Reading the Shifting Platform Landscape

- Evolution From Warehouses To Lakes To Lakehouses — Why Architectures Converge
- Hype Cycle Signals Versus Adoption Evidence — Separating Noise From Durable Change
- Workload Inventory Of Current Data Estate — Baseline For Every Later Choice
- Vendor Consolidation And Open Source Momentum — Lock-In Exposure Over Time
- Skills Market For Platform Engineering — Staffing Feasibility Of New Stacks

Day 2: Storage and Table Formats

- Object Storage Economics And Tiering — Long-Term Retention Cost Choices
- Open Table Formats And Time Travel — Engine Portability And Audit Needs
- Columnar File Layouts And Partitioning — Query Speed Versus Write Overhead
- Catalogue And Metadata Services — Discoverability Across Many Engines
- Data Sharing Without Copying — Partner And Internal Exchange Options

Day 3: Streaming and Processing Engines

- Event Brokers And Log-Based Messaging — Real-Time Integration Backbone Choices
- Stream Processing With Windows And State — Latency Versus Accuracy Trade-Offs
- Change Data Capture From Operational Systems — Freshness Without Source Strain
- Serverless And Elastic Compute Pools — Matching Capacity To Demand Peaks
- Vector Storage For Generative Assistants — Readiness For Retrieval Workloads

Day 4: Scoring, Cost and Organisation

- Weighted Scoring Matrix For Candidate Technologies — Ring Placement On The Radar
- Consumption Cost Modelling And Unit Economics — Budget Forecasts For Finance
- Domain Ownership And Data Products — Operating Model For Platform Scale
- Build, Buy Or Managed Service Comparison — Control Versus Speed Of Delivery
- Risk Register For Migration And Exit — Contingency Before Commitment

Day 5: Practising the Technology Radar and Adoption Roadmap

- Applying The Workload Inventory To Score Options — Evidence For Ring Placement
- Applying Cost Models To Migration Waves — Sequencing Spend Across Quarters
- Applying Streaming Patterns To Priority Use Cases — Early Wins For Sponsors
- Peer Challenge Of Draft Radars — Testing Assumptions Before Endorsement
- Completed Technology Radar And Adoption Roadmap — Board-Ready Platform Direction

Applying Data Platform Technology Trends After the Course

- Run a radar review with the architecture board, scoring three candidate technologies.
- Prepare a consumption cost model for the first migration wave and agree its exit points with the budget holder.

Data Platform Technology Trends Questions FAQ

What are data platform technology trends and why do they matter now?

Data platform technology trends are the shifts in how organisations store, stream and process data. They matter now because platform decisions made today fix cost, speed and flexibility for many years.

Which roles gain most from data platform technology trends training?

Leaders who own data architecture, engineering pipelines, analytics platforms or cloud budgets gain most. It suits people who approve platform investment.

How does a data platform technology trends course differ from a dashboard or reporting course?

It looks beneath the reporting layer. A dashboard course teaches visual design and calculations, while this course examines the storage, streaming and compute choices beneath it.

What do you bring back from data platform technology trends training?

You bring back a scored radar of candidate technologies and a phased roadmap for moving between them. Both use your own workloads.

Data Platform Technology Trends: The Way Forward

The technology radar and adoption roadmap first informs which platform capability to fund next and which to retire. Architecture boards, engineering heads and budget holders use it to align spending with workload needs. After its first use, revisit the ring placements each quarter, since streaming engines, table formats and cloud pricing continue to move faster than most planning cycles assume.