
Microsoft Fabric for Data and Analytics Leaders: Lakehouse, Governance and Capacity Training Course

20 – 24 June 2027
Zoom





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Programme Summary

Microsoft Fabric for data and analytics leaders is a five-day training course at managerial level, ending in a Fabric adoption and capacity plan for one organisation. Teams often switch on Fabric workspaces faster than they agree data ownership and capacity sharing. The programme moves from platform principles, through diagnosis of the current estate, to design of lakehouse, semantic model and governance choices, then to a worked plan. Mars Training Centre UK delivers this programme in Microsoft Fabric.

The Business Case

Fabric brings data engineering, warehousing, real-time analytics and Power BI onto one platform with one storage layer. That removes copies of data, but it also concentrates cost, access and quality risk in a shared capacity. Leaders who set workspace, capacity and ownership rules early can show boards what the platform delivers, what it consumes and who is accountable for each shared dataset and report.

- Report Reliability: Improves when semantic models have named owners, tested refresh and agreed definitions.
- Platform Cost: Becomes predictable when capacity use is measured by workload and charged back to the teams that drive it.
- Data Exposure: Falls when sensitivity labels, row-level security and lineage are set as standard practice.

Principles and Evidence Base

- The skill areas in the Microsoft Learn study guide for the Fabric analytics engineer role planning, preparing and serving data, managing semantic models, exploring data: They divide platform decisions between leaders and engineers.
- OneLake as a single logical store with Direct Lake access: It frames the storage and semantic model choices examined in Sessions 2 and 3.
- Medallion architecture bronze, silver and gold layers: It structures the lakehouse design and the quality gates built in Session 3.
- Microsoft Purview governance capabilities: They inform the labelling, lineage and access controls set out in Session 4.



Intended Participants

- Heads of data and analytics who decide how the platform is organised and funded.
- BI managers who answer for semantic models, dashboards and report quality.
- IT and platform managers who administer capacity and workspaces.
- Data product owners who sponsor lakehouse work.

The programme serves government, banking and energy.

Learning Outcomes

1. Participants will be able to evaluate a Fabric estate against platform principles.
2. Participants will be able to diagnose capacity pressure, duplicated datasets and weak semantic model practice.
3. Participants will be able to construct a lakehouse layer design.
4. Participants will be able to design workspace, domain and release arrangements.
5. Participants will be able to prioritise governance controls for labelling, access and lineage.
6. Participants will be able to justify a Fabric adoption and capacity plan to an executive sponsor.

Programme Structure

Day 1: Microsoft Fabric Platform Principles and Workloads

What does Microsoft Fabric change about how analytics is built, stored and paid for?

- OneLake Storage Model Review
- Fabric Workload Map
- Lakehouse and Warehouse Selection Guide
- Leader and Engineer Decision Rights
- Platform Goals and Success Measures

Day 2: Diagnosing the Current Estate, Capacity and Data Flows

Where are workloads, copies and costs pulling against one another today?

- Workspace Inventory Audit
- Capacity Utilisation Review
- Dataset Duplication Check
- Refresh Failure Log
- Shadow Report Mapping

Day 3: Designing Lakehouse Layers and Semantic Models

How are data prepared, modelled and served so reports stay fast and trusted?



- Medallion Layer Blueprint
- Ingestion Pattern Choice
- Semantic Model Design Template
- Direct Lake Fit Test
- Data Quality Gate Specification

Day 4: Governing Access, Release and Cost

Which controls keep a shared platform safe, stable and affordable?

- Sensitivity Label and Row-Level Security Matrix
- Lineage and Impact Review
- Deployment Pipeline and Git Release Route
- Capacity Sizing and Chargeback Model
- Domain and Workspace Ownership Charter

Day 5: Applying Microsoft Fabric in One Organisation

Is the plan ready for an executive sponsor?

- Applying the Session 2 Audit to the Chosen Estate
- Testing the Session 3 Layer Blueprint on a Live Dataset
- Checking the Session 4 Controls Against Risk Findings
- Setting Platform Indicators for Reliability and Cost
- Completing the Fabric Adoption and Capacity Plan

Methodology

The programme uses structured exercises on anonymised platform scenarios from government, banking and energy settings. Participants work in small teams as platform owner, BI manager and finance partner, and take one estate from audit to a costed plan, with short demonstrations tied to each decision and a closing peer review.

- Suggested activity: Reading a capacity utilisation extract and ranking the workloads to move, schedule or retire.
- Suggested activity: Sketching the lakehouse layers for one business domain and naming the owner of each.
- Suggested activity: Drafting a chargeback rule that a finance partner would accept.



Capstone Output

Each participant completes a Fabric adoption and capacity plan for one organisation. It holds a workload map, a layer blueprint, a semantic model standard, a control matrix, a capacity and chargeback model and platform indicators. The plan is used to brief an executive sponsor and to review each new workspace request.

Frequently Asked Questions

Is Microsoft Fabric training suitable for leaders who do not build pipelines themselves?

Yes. This Microsoft Fabric course is set at managerial level and assumes you direct data teams and platform spending, not that you write notebooks or DAX yourself.

Which models does Microsoft Fabric training rest on?

Microsoft Fabric training rests on the skill areas in the Microsoft Learn study guide for the analytics engineer role, the OneLake storage model, medallion architecture and Microsoft Purview governance capabilities.

How is the Microsoft Fabric adoption plan used at work?

You use the Microsoft Fabric adoption and capacity plan to brief an executive sponsor, set workspace and ownership rules and review each new request for capacity.

How does Microsoft Fabric training differ from a Power BI report-building course?

Microsoft Fabric training centres on platform ownership, lakehouse layers, governance and capacity, while a Power BI report-building course centres on authoring visuals and measures.