



Microsoft Fabric Analytics Implementation Training Course

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Overview

Microsoft Fabric Analytics Implementation Training Course is a two-week course for data analysts, analytics engineers, BI developers, platform specialists, and technical leads, who leave with a Fabric Analytics Implementation Portfolio. Participants design workspaces, choose OneLake storage patterns, build ingestion and transformation pipelines, implement lakehouse and warehouse models, create semantic models and reports, and establish security, monitoring, deployment, and governance controls. Agile Leaders Training Center develops Microsoft Fabric analytics implementation capability.

Who Should Attend

- Data analysis functions responsible for analytical models and decision-ready reporting
- Analytics engineering functions responsible for ingestion, transformation, and curated data
- Business intelligence functions responsible for semantic models and Power BI delivery
- Data platform functions responsible for Fabric workspaces, storage, security, and operations
- Technical leadership functions responsible for architecture, governance, and release decisions

The course assumes participants can work with relational data, basic SQL, and BI concepts, and leaves out certification preparation, advanced data science, tenant licensing, and custom software development.

Departments and Industries

The course supports departments and industries implementing shared analytics solutions on Microsoft Fabric.

- Data, analytics, business intelligence, and enterprise architecture
- Information technology, operations, finance, and performance management
- Healthcare, education, retail, and hospitality
- Manufacturing, transportation, utilities, and construction
- Financial services, telecommunications, technology, and professional services

Learning Objectives

By the end of this course, participants will be able to:



- Design Fabric workspaces, domains, and OneLake storage patterns
- Build ingestion, transformation, and orchestration workflows
- Implement lakehouse, warehouse, and dimensional models
- Develop semantic models, measures, and Power BI reports
- Apply security, monitoring, deployment, and governance controls
- Evaluate an end-to-end Fabric analytics implementation

Course Agenda

Day 1: Frame the Fabric Architecture

- Fabric Workload and Capability Map
- Analytics Requirement and Use-Case Canvas
- Tenant, Domain, and Workspace Structure
- Capacity and Workload Planning Checklist
- Implementation Architecture Decision Record

Day 2: Design OneLake Storage

- OneLake Logical Storage Model
- Lakehouse, Warehouse, and Eventhouse Decision Matrix
- Delta Table and File Organization Pattern
- OneLake Shortcut Design
- Data Ownership and Naming Standard

Day 3: Build Data Ingestion

- Data Source and Connectivity Inventory
- Data Factory Pipeline Architecture
- Copy Activity Configuration Pattern
- Dataflow Gen2 Ingestion Design
- Pipeline Parameter and Error-Handling Plan

Day 4: Transform and Curate Data

- Medallion Data Layer Design
- Notebook Transformation Workflow
- Spark and SQL Processing Selection Matrix
- Data Quality Rule Register
- Incremental Load and Refresh Pattern



Day 5: Implement the Lakehouse

- Lakehouse Table Management Method
- Delta Table Maintenance Plan
- SQL Analytics Endpoint Query Pattern
- Lakehouse Security and Access Matrix
- Curated Lakehouse Validation Checklist

Day 6: Implement the Warehouse

- Fabric Warehouse Architecture
- Dimensional Model Design Canvas
- Fact and Dimension Table Specification
- T-SQL Transformation Procedure
- Warehouse Performance Review Checklist

Day 7: Build Semantic Models

- Semantic Model Relationship Diagram
- Measure Definition and DAX Register
- Direct Lake Storage Mode Decision
- Row-Level Security Role Matrix
- Semantic Model Performance Checklist

Day 8: Deliver Power BI Analytics

- Report Audience and Decision Map
- Visual Selection and Interaction Matrix
- Power BI Report Navigation Design
- Accessibility and Usability Checklist
- Report Validation and Sign-Off Record

Day 9: Operate and Govern Fabric

- Workspace Access and Least-Privilege Matrix
- Monitoring Hub Operations Dashboard
- Pipeline Failure Triage Workflow
- Deployment Pipeline Stage Plan
- Fabric Governance and Lineage Review



Day 10: Practice Fabric Implementation

- Exercise: Design a Workspace and OneLake Pattern
- Exercise: Build an Ingestion and Transformation Flow
- Exercise: Model Lakehouse and Warehouse Data
- Exercise: Validate Security, Monitoring, and Deployment
- Capstone: Fabric Analytics Implementation Portfolio

Practical Exercises

The course uses suggested activities based on analytics delivery in healthcare, retail, manufacturing, and professional services.

- Suggested activity: translate an analytics need into workspace, capacity, storage, ownership, and architecture decisions.
- Suggested activity: configure an ingestion and transformation flow with parameters, validation, and error handling.
- Suggested activity: design dimensional and semantic models, measures, security roles, and report interactions.
- Suggested activity: assemble an implementation portfolio with monitoring, deployment, governance, and operational evidence.

FAQs

Who suits Microsoft Fabric analytics implementation training, and what does it assume?

Data analysis, analytics engineering, BI, platform, architecture, and technical leadership functions suit the training; it assumes experience with relational data, basic SQL, and BI concepts.

How does Microsoft Fabric analytics implementation differ from Power BI report training?

Microsoft Fabric analytics implementation spans storage, ingestion, transformation, lakehouse, warehouse, semantic models, security, operations, and deployment, while Power BI report training concentrates on analysis and presentation.

When should a Fabric solution use a lakehouse or warehouse?

A Fabric solution should choose based on data formats, engineering workflows, SQL requirements, governance, team skills, and consumption patterns, documenting the decision against the use case.



How does OneLake support Microsoft Fabric analytics?

OneLake provides shared logical storage across Fabric workloads, allowing governed data access and reuse while lakehouses, warehouses, and other items serve different analytical patterns.

How should a Microsoft Fabric analytics solution be deployed and monitored?

A Fabric solution should use controlled deployment stages, documented ownership, access rules, validation checks, monitoring evidence, failure triage, and release records appropriate to the organization.

Conclusion

Participants take back a Fabric Analytics Implementation Portfolio containing architecture decisions, workspace and storage designs, pipelines, transformation rules, analytical models, reports, security controls, monitoring, deployment, and governance evidence. It changes disconnected Fabric tasks into an implementation lifecycle. The portfolio supports design review, build, release, operation, and improvement.

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