

ENTERPRISE PROGRAM BRIEF

Microsoft Fabric Engineering Foundations

Build an operational analytics foundation in Microsoft Fabric.

VNode ITeS

F06

DURATION

40 hours

LEVEL

Foundation

FORMAT

Private cohort

AUDIENCE PROFILE

Built for these roles

Data engineers, Analytics engineers

OVERVIEW

Executive overview

Build an operational analytics foundation in Microsoft Fabric. Proposed instructor-led duration; delivery subject to environment and lab validation.

READINESS

Prerequisites

- SQL and data engineering fundamentals
- SQL and Data Engineering Foundations, or equivalent demonstrable experience

PROGRAM OUTCOMES

Capabilities your teams will gain

- Demonstrate the source-to-semantic-model analytics workflow
- Reconcile metrics and diagnose an injected refresh failure
- Prove intended access for separate author and consumer personas
- Document workspace design, refresh ownership and capacity assumptions

ENTERPRISE CUSTOMIZATION

Enterprise customization

Tailor this program to your organization's priorities: Build an operational analytics foundation in Microsoft Fabric.

- Private cohort scheduling
- Equivalent-experience entry review

CURRICULUM

Curriculum roadmap

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MODULE 1 · 8 HOURS

Fabric architecture and OneLake

Create a workspace design and load supplied data into the selected analytical store.

- Capacity and workspaces
- Lakehouse versus warehouse
- OneLake
- Item ownership

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MODULE 2 · 8 HOURS

Ingestion and orchestration

Create a parameterised data ingestion pipeline with error handling.

- Pipelines
- Supported connectors
- Parameters
- Incremental-load concepts

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MODULE 3 · 8 HOURS

Transformation and quality

Transform raw data into validated analytical tables using SQL-first examples.

- SQL transformations
- Notebook concepts
- Delta table concepts
- Quality and reconciliation

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MODULE 4 · 8 HOURS

Consumption and security

Build a small semantic model and test two consumer personas.

- Semantic model fundamentals
- Measures
- Workspace and item permissions
- Lineage

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MODULE 5 · 8 HOURS

Operations and integrated assessment

Demonstrate source-to-report processing and diagnose a failed refresh.

- Refresh orchestration
- Monitoring
- Capacity awareness
- Cleanup and handover

PREPARATION

Environment prerequisites

Fabric capacity and isolated workspace Author and consumer personas Source files and notebook runtime Data-agent labs: paid F2+ or qualifying P1+ capacity, tenant AI settings and source access as documented; cohort capacity sized separately Delivery depends on environment and lab validation. This outline does not include step-by-step lab instructions.

CAPSTONE

Capstone

Demonstrate source-to-report processing and diagnose a failed refresh. Assessed Fabric analytics solution Evidence of relevant access, quality and risk controls Demonstration and limitations record

ASSESSMENT

Assessment

Scenario-based practical assessment Demonstrate the source-to-semantic-model analytics workflow 30% Reconcile metrics and diagnose an injected refresh failure 25% Prove intended access for separate author and consumer personas 25% Document workspace design, refresh ownership and capacity assumptions 20% Proposed VNode outline-level assessment; no vendor accreditation or completed lab validation implied.

DELIVERABLES

Participant deliverables

- Assessed Fabric analytics solution
- Evidence of relevant access, quality and risk controls
- Demonstration and limitations record

SCOPE

Scope boundaries

Step-by-step lab instructions; Runnable solution code; Packaged source datasets; Executed environment validation

DELIVERY

Delivery options

Count teaching hours, not calendar days. Exclude breaks. Split into 4-hour or 8-hour teaching sessions; schedule complex project work in contiguous blocks. Proposed hours exclude breaks and are subject to pilot validation.

PRIVATE DELIVERY

Plan a private cohort for your team

Scope delivery format, role mix, and rollout timeline with our solutions team.

[Plan Private Delivery](#)
[Book advisory call](#)