



Power BI End-to-End Analytics Delivery Course

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Overview

Power BI End-to-End Analytics Delivery Course is a two-week course for data analysts, business intelligence professionals, reporting specialists, and managers, who leave with a Power BI Analytics Delivery Pack. Participants develop source profiles, Power Query flows, star-schema models, DAX measures, interactive and accessible reports, publication controls, row-level security, performance checks, governance, and deployment evidence. Agile Leaders Training Center develops Power BI analytics delivery capability.

Who Should Attend

- Data analysis functions responsible for preparing, modeling, and interpreting business data
- Business intelligence functions responsible for semantic models, measures, reports, and workspaces
- Reporting functions responsible for recurring performance and management information
- Technology functions responsible for publication, access, refresh, and deployment support
- Governance functions responsible for ownership, quality, security, and controlled distribution
- Management functions responsible for defining questions and reviewing analytical evidence

The course assumes participants can work with tables, calculations, and business measures, and leaves out introductory computer skills, database administration, software licensing, and certification preparation.

Departments and Industries

The course supports departments and industries that deliver governed self-service analytics and reporting.

- Business intelligence, analytics, reporting, and data governance
- Finance, commercial, operations, and supply chain
- Technology, telecommunications, energy, and manufacturing
- Healthcare, education, professional services, and public services
- Audit, risk, project management, and performance management

Learning Objectives

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

- Build repeatable Power Query preparation flows
- Apply star-schema methods to semantic models
- Build DAX measures for analytical questions
- Design interactive, accessible Power BI reports
- Evaluate security, refresh, and performance controls

- Build a governed publication and deployment package

Course Agenda

Day 1: Frame the Analytics Product

- Decision Question and Stakeholder Requirement Canvas
- Source System and Data Ownership Map
- Metric Definition and Business Rule Register
- Power BI Delivery Lifecycle Diagram
- Analytics Product Scope and Acceptance Brief

Day 2: Profile and Connect Sources

- Connector Selection and Credential Planning Matrix
- Column Profile, Distribution, and Quality Review
- Data Type and Locale Validation Checklist
- Query Dependency and Source Lineage Map
- Source Risk and Refresh Feasibility Assessment

Day 3: Transform with Power Query

- Power Query Step and Applied Transformation Log
- Filter, Split, Merge, Append, and Pivot Method
- Parameter and Reusable Query Design Pattern
- Error, Null, Duplicate, and Exception Treatment Rules
- Staging Query and Load-Control Architecture

Day 4: Build the Semantic Model

- Star Schema Fact and Dimension Design
- Relationship Cardinality and Filter Direction Matrix
- Date Table and Role-Playing Dimension Pattern
- Hierarchy, Sort, Format, and Metadata Specification
- Semantic Model Validation and Ambiguity Test

Day 5: Develop DAX Measures

- DAX Measure versus Calculated Column Decision Guide
- Filter Context and Row Context Trace Method
- CALCULATE and Context Transition Analysis
- Time-Based Comparison Measure Pattern
- Measure Table, Naming, and Documentation Standard



Day 6: Design Analytical Reports

- Visual Selection and Analytical Relationship Matrix
- Report Page Layout and Attention Hierarchy Grid
- KPI Card, Trend, Variance, and Exception Pattern
- Filter, Slicer, Bookmark, and Drillthrough Specification
- Tooltip, Annotation, and Narrative Writing Guide

Day 7: Build Accessible Interactions

- Color Contrast and Noncolor Cue Checklist
- Alternative Text and Logical Reading Order Review
- Keyboard Navigation and Focus Sequence Test
- Mobile Layout and Responsive Consumption Wireframe
- Usability Test Script and Feedback Register

Day 8: Publish and Secure Content

- Workspace Role and Content Ownership Matrix
- Dataset, Report, Dashboard, and App Publication Flow
- Row-Level Security Role and Test Case Design
- Refresh Schedule, Gateway, and Failure Response Plan
- Sharing, Endorsement, and Distribution Control Checklist

Day 9: Optimize and Govern Delivery

- Model Size and Cardinality Diagnostic Review
- DAX Performance and Visual Query Investigation
- Usage Metric and Adoption Monitoring Dashboard
- Change, Version, and Deployment Pipeline Control
- Governance Gate and Release Readiness Checklist

Day 10: Practice End-to-End Delivery

- Exercise: Repair Source Quality and Query Dependencies
- Exercise: Diagnose Model Relationships and DAX Results
- Exercise: Redesign Report Interaction and Accessibility
- Exercise: Validate Security, Refresh, and Release Controls
- Capstone: Power BI Analytics Delivery Pack

Practical Exercises

The course uses suggested activities based on finance, operations, service, and performance-reporting datasets.



- Suggested activity: profile mixed sources, document ownership, apply transformations, and build controlled staging queries.
- Suggested activity: construct a star schema, validate relationships, and develop documented DAX measures for defined metrics.
- Suggested activity: design interactive and accessible report pages, then test navigation, filters, tooltips, and mobile layout.
- Suggested activity: publish a governed solution with roles, refresh controls, performance evidence, release gates, and deployment records.

FAQs

Who suits a Power BI analytics delivery course, and what does it assume?

Data analysis, business intelligence, reporting, technology, governance, and management functions suit the course; it assumes comfort with tables, calculations, and business measures.

How does end-to-end Power BI training differ from dashboard design training?

End-to-end Power BI training covers preparation, modeling, DAX, reporting, accessibility, publication, security, refresh, optimization, governance, and deployment, while dashboard design training concentrates on visual structure and communication.

Why does Power BI use a star schema?

A star schema separates measurable events from descriptive dimensions, which clarifies relationships, supports reusable filtering, reduces ambiguity, and provides a stable structure for measures and reports.

What is the difference between a DAX measure and a calculated column?

A DAX measure calculates a result in the current query context, while a calculated column stores a row-level result during model processing and increases model size.

How should Power BI content be governed after publication?

Governance assigns owners, roles, refresh controls, security tests, endorsement rules, usage monitoring, version evidence, deployment gates, support routes, and periodic review for models, reports, dashboards, and apps.

Conclusion

Participants take back a Power BI Analytics Delivery Pack containing requirements, source profiles, query logs, a semantic model, DAX measures, report specifications, accessibility tests, workspace roles, security cases, refresh controls, performance evidence, and release gates. It changes isolated report building into a controlled delivery lifecycle. The pack supports repeatable development, publication, adoption, and governance.



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