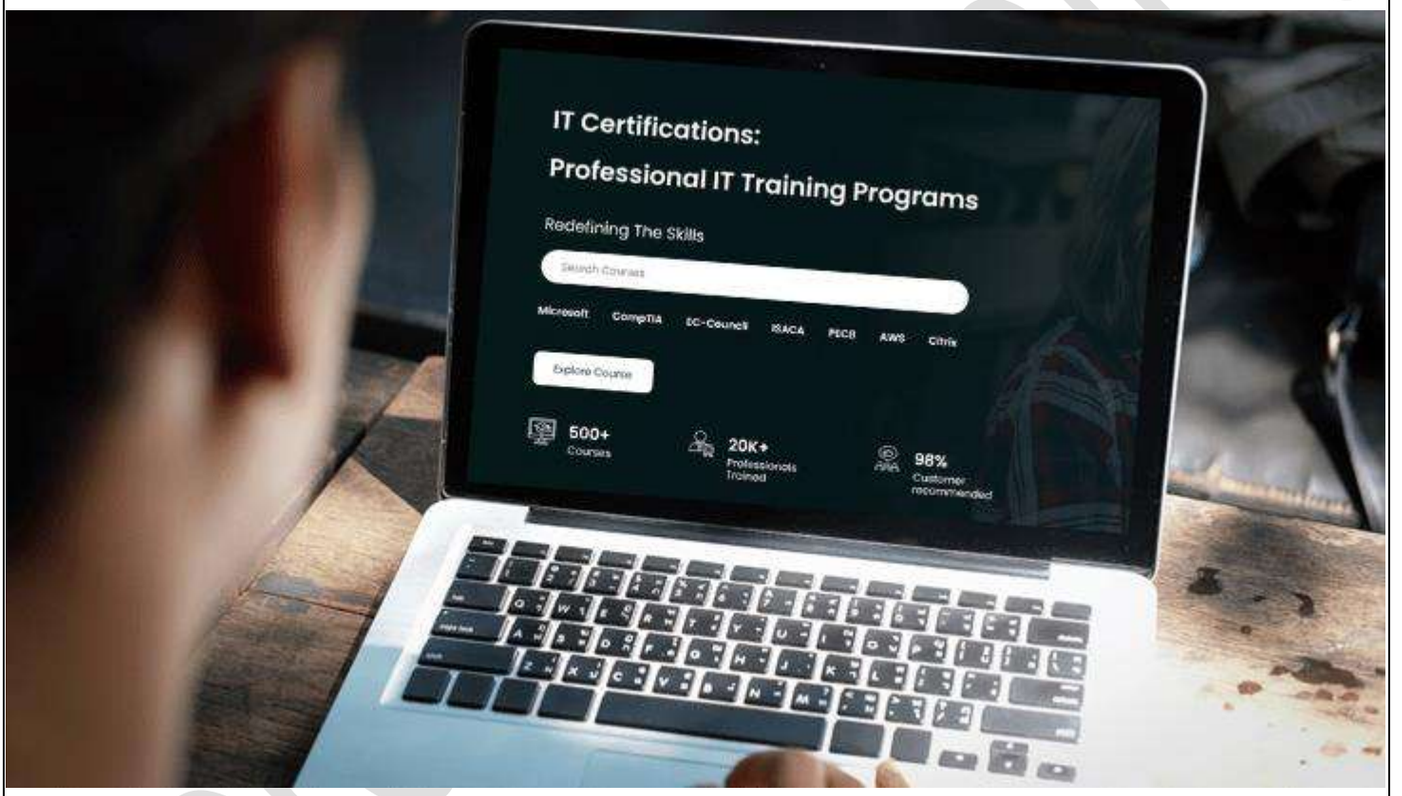
MICROTEK LEARNING | Redefining The Skills



DP-3029: Work smarter with Copilot in Microsoft Fabric Training

DURATION: 1 DAY (8 HOURS)

Microtek Learning

Course Description

The Microsoft DP-3029 course shows you how to work smarter with Copilot in Microsoft Fabric. You'll learn to integrate, transform, and store data, as well as build insightful reports by harnessing Copilot's capabilities within Microsoft Fabric.

Who should attend this course?

This course is for data analysts and data engineers who are familiar with basic data concepts and terminology. People taking this course should already have a basic understanding of Microsoft Fabric and Power BI.

What you will learn

- Explain Copilot's architecture, governance model, and tenant/capacity configuration in Microsoft Fabric.
- Monitor and optimize consumption using token-based costing, budgets, and guardrails.
- Streamline integration, engineering, warehousing, BI, real-time intelligence, and SQL with AI-assisted experiences.
- Use Copilot prompts to ingest, transform, orchestrate, and document dataflows, pipelines, and Spark code.
- Generate, refine, explain, and fix T-SQL with AI chat, inline completions, and best-practice prompting.
- Accelerate Power BI development of semantic models and reports; query data using natural language.
- Design, configure, and govern Fabric data agents for secure conversational access to OneLake data.
- Plan a scalable, cost-effective Copilot rollout with operational and governance best practices.

Prerequisites

- Familiarity with basic data concepts and terminology
- Learners should already have a basic understanding of Microsoft Fabric and Power BI

Curriculum

Module 1: Introduction to Copilot in Microsoft Fabric

- Describe the role of Copilot in accelerating end-to-end analytics workflows in Microsoft Fabric.
- Identify high-value productivity scenarios across data integration, engineering, warehousing, BI, real-time intelligence, SQL, and data agents.
- Explain how natural language and AI-assisted features reduce complexity, improve quality, and foster collaboration.
- Recognize prerequisites, licensing, and governance considerations for enabling Copilot responsibly.

Module 2: Get started with Copilot in Microsoft Fabric for data engineering

- Apply Copilot across Microsoft Fabric to accelerate end-to-end data engineering tasks from ingestion to transformation and exploration.

Microtek Learning

- Prompt Copilot to create and configure dataflows and pipelines with natural language instead of manual UI steps.
- Generate, refine, and explain data transformation logic and Spark code safely and efficiently.
- Use effective prompting strategies and best practices to improve quality, performance, and governance when using Copilot in Fabric.

Module 3: Get started with Copilot in Microsoft Fabric for Data Warehouse

- Apply Copilot across Fabric Data Warehouse experiences to accelerate querying, authoring, and troubleshooting.
- Generate, refine, explain, and fix T-SQL using chat, inline code completions, and quick actions.
- Incorporate effective prompting, naming, and schema design practices that improve Copilot accuracy.
- Use Copilot capabilities responsibly to enhance productivity while maintaining data quality and governance.

Module 4: Get started with Copilot in Power BI

- Use Copilot in Power BI during report development.
- Prepare semantic models for use with AI.
- Interact with data using natural language in Copilot Chat.

Module 5: Implement Microsoft Fabric Data Agents (chat with your data)

- Design and configure Fabric data agents that enable secure conversational access to enterprise data.
- Curate and optimize data sources, instructions, and example queries for accurate and relevant responses.
- Publish, operationalize, and integrate Fabric data agents with downstream experiences like Azure AI Foundry, Power BI, and custom apps.
- Apply governance, permission, and prompting best practices that improve reliability and safeguard data.

Module 6: Manage Copilot in Microsoft Fabric

- Explain the core architecture and governance model of Copilot in Microsoft Fabric.
- Enable and configure Copilot tenant and capacity settings aligned with regional, security, and compliance requirements.
- Monitor and interpret Copilot capacity consumption using metrics and token-based costing to inform optimization.
- Plan scalable rollout strategies (controlled access, capacity designation, isolation) that balance performance and cost.

Microtek Learning

For any query Contact Us – Microtek Learning