



MICROSOFT TRAINING

# DP-603: Implementing Real-Time Intelligence with Microsoft Fabric

*Master real-time intelligence implementation with Microsoft Fabric. Prepare to ace your DP-603 certification.*

DURATION

**8 Hours**

LEVEL

**Intermediate**

FORMAT

**Instructor-Led**

- Globally Recognized Certification

- Expert-Led Hands-On Training

- Flexible Scheduling

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## COURSE OVERVIEW

This intermediate-level course, DP-603: Implementing Real-Time Intelligence with Microsoft Fabric, is designed for data professionals seeking to master the creation of robust, end-to-end real-time analytics solutions. Participants will delve into the powerful capabilities of Microsoft Fabric, specifically focusing on its Real-Time Intelligence suite including Eventstreams, KQL Databases, KQL Query Sets, and Data Activator. You'll learn how to ingest, process, analyze, and visualize high-volume, high-velocity data streams to drive immediate business insights and automated responses, transforming raw data into actionable intelligence without delay. This course equips you with the skills to build event-driven architectures that can monitor complex scenarios, detect anomalies, and trigger automated actions, all within the unified Microsoft Fabric ecosystem. The professional benefits of mastering this course are substantial. You will gain the expertise to design and implement solutions that provide instant visibility into business operations, customer behavior, and system performance. This enables organizations to react proactively to emerging trends, mitigate risks, and seize opportunities faster than ever before. For data engineers and analysts, this translates into a significant enhancement of their skillset, moving beyond batch processing to the cutting edge of real-time data analytics. Upon completion, you will be proficient in leveraging Microsoft Fabric's integrated tools to deliver impactful real-time dashboards, alerts, and operational insights, making you an invaluable asset in any data-driven enterprise.

|           |              |
|-----------|--------------|
| Duration  | 8 Hours      |
| Level     | Intermediate |
| Vendor    | Microsoft    |
| Exam Code | DP-603       |

## COURSE CURRICULUM

### 01 Module 1: Introduction to Real-Time Intelligence in Microsoft Fabric

- Understanding Real-Time Intelligence Concepts
- Overview of Microsoft Fabric and its Real-Time Capabilities
- Exploring the Real-Time Intelligence Workload in Fabric
- Setting up a Fabric Workspace for Real-Time Scenarios
- Introduction to Eventstreams and KQL Databases

### 02 Module 2: Ingesting and Processing Streaming Data with Eventstreams

- Creating and Managing Eventstreams
- Connecting Various Data Sources (Azure Event Hubs, Custom Apps, Kafka)
- Applying Inline Transformations and Filtering to Event Data
- Routing Eventstream Data to KQL Databases and Lakehouses
- Monitoring and Troubleshooting Eventstreams

### 03 Module 3: Analyzing Real-Time Data with KQL Databases and Query Sets

- Designing and Managing KQL Databases and Tables
- Ingesting Data into KQL Tables (Streaming, Batch)
- Mastering Kusto Query Language (KQL) for Real-Time Analysis
- Creating and Optimizing KQL Query Sets
- Implementing Continuous Exports from KQL Databases

### 04 Module 4: Building Real-Time Actions and Alerts with Data Activator

- Introduction to Data Activator in Microsoft Fabric

- Defining Reflex Items from KQL Databases and Eventstreams
- Setting up Triggers and Conditions for Real-Time Alerts
- Configuring Actions (Power Automate, Email, Teams, Custom Webhooks)
- Developing End-to-End Real-Time Monitoring Solutions

## 05 **Module 5: Integrating Real-Time Intelligence with Fabric and External Tools**

- Creating Real-Time Dashboards with Power BI and KQL Query Sets
- Integrating Real-Time Data with Fabric Lakehouses and Warehouses
- Leveraging Notebooks for Advanced Real-Time Data Exploration
- Connecting Real-Time Intelligence with Azure Services (e.g., Azure Functions)
- Best Practices for Solution Architecture

## 06 **Module 6: Securing, Administering, and Optimizing Real-Time Intelligence Solutions**

- Implementing Security for Real-Time Intelligence Components (RBAC)
- Monitoring Performance and Usage of Fabric Real-Time Workloads
- Optimizing KQL Database Performance and Cost
- Data Governance and Compliance for Real-Time Data
- Troubleshooting Common Issues in Real-Time Fabric Solutions

## CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Real-time Analytics Engineer**
- > **Microsoft Fabric Solutions Architect (Specializing in Real-time)**
- > **Streaming Data Specialist**
- > **IoT Data Engineer**

## FREQUENTLY ASKED QUESTIONS

### **Q: What are the ideal prerequisites for taking the DP-603: Implementing Real-Time Intelligence with Microsoft Fabric course?**

This course is best suited for individuals with a foundational understanding of data engineering concepts and experience with data analytics tools. Familiarity with Microsoft Azure services, particularly data-related ones like Azure Event Hubs or Azure Data Explorer, and basic Kusto Query Language (KQL) or SQL knowledge would be highly beneficial. While not strictly required, prior exposure to Microsoft Fabric concepts (e.g., Lakehouse, Data Warehouse) will also aid in contextualizing the real-time intelligence components.

### **Q: How does mastering the skills taught in DP-603 translate into solving real-world business problems?**

The skills acquired in DP-603 are crucial for businesses needing instant insights and automated responses. You'll learn to build solutions for fraud detection in financial services, real-time inventory management in retail, predictive maintenance in manufacturing, IoT device monitoring, and personalized customer experiences. For example, you could implement a system to detect unusual credit card transactions immediately and trigger an alert, or monitor sensor data from machinery to predict failures before they occur, ultimately improving operational efficiency and customer satisfaction.

## Q: What is the key differentiator of Microsoft Fabric's Real-Time Intelligence compared to other streaming analytics platforms?

Microsoft Fabric's Real-Time Intelligence differentiates itself by offering a truly unified, end-to-end platform for streaming data within a single SaaS experience. Unlike fragmented solutions, Fabric integrates Eventstreams for ingestion, KQL Databases for high-performance analysis, and Data Activator for proactive alerting and actions, all seamlessly connected with other Fabric components like Lakehouse and Power BI. This eliminates the need for complex integrations between disparate tools, simplifying development, reducing operational overhead, and accelerating time to insight for real-time applications.

## ABOUT COMPUTER PRIDE



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With over 15 years of excellence, Computer Pride delivers globally recognized certification programs from leading technology vendors. Located on Kenyatta Avenue in Nairobi's CBD, our state-of-the-art facilities and expert instructors have empowered thousands of professionals across East Africa.

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Take the next step in your technology career.

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