

KOENIG SOLUTIONS · COURSE OUTLINE

DP-700 Exam Prep

Learn to implement, secure, ingest, transform, monitor and optimise analytics solutions in Microsoft Fabric.

8 Hours

DURATION

3

MODULES

49

TOPICS

COURSE OVERVIEW

As a candidate for DP-700 exam, you should have subject matter expertise with data loading patterns, data architectures, and orchestration processes. Your responsibilities for this role include: - Ingesting and transforming data. - Securing and managing an analytics solution. - Monitoring and optimizing an analytics solution. You work closely with analytics engineers, architects, analysts, and administrators to design and deploy data engineering solutions for analytics. You should be skilled at manipulating and transforming data by using Structured Query Language (SQL), PySpark, and Kusto Query Language (KQL). This course will help you review the content and go through the resources that will help you prepare well for the exam.

WHO THIS COURSE IS FOR

Analytics Engineers

Data Architects

Data Analysts

Data Administrators

LEARNING OBJECTIVES

Skills measured

- Implement and manage an analytics solution
- Ingest and transform data
- Monitor and optimize an analytics solution

3 Modules, 49 Topics

01

30-35%

Implement and Manage an Analytics Solution

CONFIGURE MICROSOFT FABRIC WORKSPACE SETTINGS

- Configure Spark workspace settings
- Configure domain workspace settings
- Configure OneLake workspace settings
- Configure data workflow workspace settings

IMPLEMENT LIFECYCLE MANAGEMENT IN FABRIC

- Configure version control
- Implement database projects
- Create and configure deployment pipelines

CONFIGURE SECURITY AND GOVERNANCE

- Implement workspace-level access controls
- Implement item-level access controls
- Implement row-level, column-level, object-level, and file-level access controls
- Implement dynamic data masking
- Apply sensitivity labels to items
- Endorse items

ORCHESTRATE PROCESSES

- Choose between a pipeline and a notebook
- Design and implement schedules and event-based triggers
- Implement orchestration patterns with notebooks and pipelines, including parameters and dynamic expressions

02

30-35%

Ingest and Transform Data

DESIGN AND IMPLEMENT LOADING PATTERNS

- Design and implement full and incremental data loads
- Prepare data for loading into a dimensional model
- Design and implement a loading pattern for streaming data

INGEST AND TRANSFORM BATCH DATA

- Choose an appropriate data store
- Choose between dataflows, notebooks, and T-SQL for data transformation
- Create and manage shortcuts to data
- Implement mirroring
- Ingest data by using pipelines
- Transform data by using PySpark, SQL, and KQL
- Denormalize data
- Group and aggregate data
- Handle duplicate, missing, and late-arriving data

Ingest and Transform Data (continued)

INGEST AND TRANSFORM STREAMING DATA

- Choose an appropriate streaming engine
- Process data by using eventstreams
- Process data by using Spark structured streaming
- Process data by using KQL
- Create windowing functions

03

30-35%

Monitor and Optimize an Analytics Solution

MONITOR FABRIC ITEMS

- Monitor data ingestion
- Monitor data transformation
- Monitor semantic model refresh
- Configure alerts

IDENTIFY AND RESOLVE ERRORS

- Identify and resolve pipeline errors
- Identify and resolve dataflow errors
- Identify and resolve notebook errors
- Identify and resolve eventhouse errors
- Identify and resolve eventstream errors
- Identify and resolve T-SQL errors

OPTIMIZE PERFORMANCE

- Optimize a lakehouse table
- Optimize a pipeline
- Optimize a data warehouse
- Optimize eventstreams and eventhouses
- Optimize Spark performance
- Optimize query performance

WHAT IS INCLUDED

Everything You Need to Succeed

- Koenig course material for every module
- Delivery by certified instructors and subject matter experts
- Hands-on exercises throughout the course
- Course completion certificate from Koenig

ABOUT KOENIG

Who We Are

Established in 1993, Koenig Solutions is a globally recognised training provider with 35+ technology partnerships, 5,000+ training programmes and a network of certified instructors and subject matter experts, supporting individuals and enterprise teams worldwide.

FLEXIBLE DELIVERY

Learn the Way That Suits You

Classroom Training

Live Online Classes (ILO)

Fly-Me-A-Trainer (FMAT)

Flexi (Self-Paced)

1-on-1 Training

Ready to Get Started?

Talk to a learning advisor about schedules, group training and customised delivery.

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