KOENIG
step forward

KOENIG SOLUTIONS · COURSE OUTLINE

Data Integration with Cloud Data Fusion

Learn to design, build and manage data pipelines using Cloud Data Fusion, from transformation with Wrangler to streaming and lineage.

7
MODULES

28
TOPICS

COURSE OVERVIEW

This course covers the fundamentals of data integration and the components of the Cloud Data Fusion user interface, followed by the architecture and core concepts used to build pipelines in Pipeline Studio. It then addresses designing more complex pipelines through branching, merging, error handling and macros, and explains how to configure the execution environment, including schedules, triggers, compute profiles and monitoring. Later modules cover preparing and transforming data with Wrangler and directives, working with connectors and the Cloud Data Loss Prevention API, building streaming pipelines, and managing metadata and data lineage.

WHO THIS COURSE IS FOR

Data Engineers | **Data Integration Specialists** | **ETL Developers** | **Cloud Data Engineers** | **Data Analysts**

LEARNING OBJECTIVES

- Explain data integration concepts and Cloud Data Fusion capabilities
- Describe the Cloud Data Fusion architecture and core concepts
- Build data pipelines using Pipeline Studio
- Design complex pipelines with branching, merging and error handling
- Configure schedules, triggers and compute profiles for pipelines
- Apply Wrangler directives to prepare and transform data
- Build and execute streaming pipelines using connectors
- Analyse metadata and data lineage

COURSE SYLLABUS

7 Modules, 28 Topics

01

Introduction to Data Integration and Cloud Data Fusion

TOPICS

Data integration: what, why, challenges · Data integration tools used in industry · User personas · Introduction to Cloud Data Fusion · Data integration critical capabilities · Cloud Data Fusion UI components

02

Building Pipelines

TOPICS

- Cloud Data Fusion architecture
- Core concepts
- Data pipelines and directed acyclic graphs (DAG)
- Pipeline Lifecycle
- Designing pipelines in Pipeline Studio

03

Designing Complex Pipelines

TOPICS

- Branching, Merging and Joining
- Actions and Notifications
- Error handling and Macros
- Pipeline Configurations, Scheduling, Import and Export

04

Pipeline Execution Environment

TOPICS

- Schedules and triggers
- **Execution environment:** Compute profile and provisions
- Monitoring pipelines

05

Building Transformations and Preparing Data with Wrangler

TOPICS

Wrangler · Directives · User-defined directives

06

Connectors and Streaming Pipelines

TOPICS

- Understand the data integration architecture
- List various connectors
- Use the Cloud Data Loss Prevention (DLP) API
- Understand the reference architecture of streaming pipelines
- Build and execute a streaming pipeline

07

Metadata and Data Lineage

TOPICS

Metadata · Data lineage

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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