

Managing a Data Mesh with Dataplex

Category: AI, Data & Analytics | **Vendor:** Google Cloud

Duration: 16.00 hours (2 days)

13.0 CPD Hours

Rating: ★ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Course Overview

Dataplex is an intelligent data fabric that enables organizations to centrally discover, manage, monitor, and govern their data across data lakes, data warehouses, and data marts. You can use Dataplex to build a data mesh architecture to decentralize data ownership among domain data owners.

In this course, you will learn how to discover, manage, monitor, and govern your data across data lakes, data warehouses, and data marts through guided lectures and independent exercises using sample data.

This course does not cover the interaction of Dataplex with Dataproc Metastore nor does it do a deep dive into BigLake concepts.

About This Course

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In this course, you will learn how to discover, manage, monitor, and govern your data across data lakes, data warehouses, and data marts through guided lectures and independent exercises using sample data.

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Prerequisites & Entry Requirements

General Prerequisites:

Completion of the (I) and (II) courses in the "Data Engineer" learning path or equivalent experience using Google Cloud.

Learning Outcomes

Upon successful completion of this course, participants will be able to:

- Identify the importance of a modern data platform
- Configure and set up Dataplex
- Secure data lakes, zones, and assets
- Implement tagging for resources and use tags to search for assets
- Process data using Dataplex tasks
- Design, execute and report on data quality processes

Detailed Course Outline

Module 1 - Introduction to Dataplex

Topics:

- Modern Data Platforms and Data-Oriented Design
- Pillars of Data Governance
- What is Dataplex?
- Dataplex Capabilities
- Dataplex compared with other products on Google Cloud

Objectives:

- Identify the importance of a modern data platform
- Explain the role of Dataplex on Google Cloud

Module 2 - Creating a Data Mesh on Dataplex

Topics:

- What is a data mesh?
- Dataplex concepts
- Creating data lakes and zones
- Assets in Dataplex

Objectives:

- Define key Dataplex concepts
- Configure and set up Dataplex

Activities:

- Lab: Provision a Data Mesh using Dataplex

Module 3 - Processing Data on Dataplex

Topics:

- Processing data on Dataplex
- Data preparation tasks
- Ingestion jobs
- Dataflow and Spark tasks

Objectives:

- Understand different data processing options in Dataplex
- Configure and run data preparation tasks on Dataplex

Activities:

- Lab: Standardize Data using Dataplex Tasks

Module 4 - Managing Data Security through Dataplex

Topics:

- IAM permissions and roles
- Securing your data lake
- Policy management
- Metadata security

Objectives:

- Secure data lakes, zones, and assets in Dataplex

Activities:

- Lab: Manage Data Security using Dataplex

Module 5 - Data Tagging and Data Catalog

Topics:

- Introduction to Data Catalog
- Technical metadata vs. business metadata
- Tags and tag templates
- Entries and entry groups
- Data lineage

Objectives:

- Implement tagging for resources and use tags to search for assets

Activities:

- Lab: Data Catalog and Data Lineage

Module 6 - Data Quality and Profiling

Topics:

- Data quality tasks and AutoDQ
- Reporting on data quality
- Data profiling

Objectives:

- Design, execute and report on data quality processes

Activities:

- Lab: Data Quality and Profiling your Data in BigQuery

Module 7 - Dataplex Best Practices

Topics:

- Best practices
- End-to-end demo

Objectives:

- Implement best practices for Dataplex

Activities:

- Challenge Lab: Managing a Data Mesh with Dataplex

Skills You Will Learn:

- Identify the importance of a modern data platform
- Configure and set up Dataplex
- Secure data lakes, zones, and assets
- Implement tagging for resources and use tags to search for assets
- Process data using Dataplex tasks
- Design, execute and report on data quality processes

Frequently Asked Questions

Q: What delivery options are available for Managing a Data Mesh with Dataplex?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
 - Traditional Instructor-Led Classroom Training (ILT)
 - On-site delivery at your offices anywhere in United Kingdom
 - Private dedicated courses customized for your team
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Q: How many CPD hours does this course provide?

The 2-day Managing a Data Mesh with Dataplex course provides up to 13.0 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the Managing a Data Mesh with Dataplex training?

The training takes place over 2 day(s), with each day lasting approximately 16.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for Managing a Data Mesh with Dataplex?

Yes, we provide corporate training, dedicated training, and closed classes for Managing a Data Mesh with Dataplex. Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: What related terms do people search for?

Popular related searches include: Managing a Data Mesh with Dataplex, Data Engineering, MDMD

Q: Why choose Nexus Human for Managing a Data Mesh with Dataplex?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your Managing a Data Mesh with Dataplex training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

Nexus Human

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