Training: AWS
# AWS Certified Data Engineer - Associate (DEA-C01) Exam

## TRAINING GOALS:

The AWS Certified Data Engineer - Associate (DEA-C01) exam validates a candidate's ability to implement data pipelines and to monitor, troubleshoot, and optimize cost and performance issues in accordance with best practices.

The exam also validates a candidate's ability to complete the following tasks:

- Ingest and transform data, and orchestrate data pipelines while applying programming concepts.
- Choose an optimal data store, design data models, catalog data schemas, and manage data lifecycles.
- Operationalize, maintain, and monitor data pipelines. Analyze data and ensure data quality.
- Implement appropriate authentication, authorization, data encryption, privacy, and governance. Enable logging.

Target candidate

The target candidate should have the equivalent of 2–3 years of experience in data engineering. The target candidate should understand the effects of volume, variety, and velocity on data ingestion, transformation, modeling, security, governance, privacy, schema design, and optimal data store design. Additionally, the target candidate should have at least 1–2 years of hands-on experience with AWS services.

Recommended general IT knowledge

The target candidate should have the following general IT knowledge:

- Setup and maintenance of extract, transform, and load (ETL) pipelines from ingestion to destination
- Application of high-level but language-agnostic programming concepts as required by the pipeline
- How to use Git commands for source control
- How to use data lakes to store data
- General concepts for networking, storage, and compute

Recommended AWS knowledge



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The target candidate should have the following AWS knowledge:

- How to use AWS services to accomplish the tasks listed in the Introduction section of this exam guide
- An understanding of the AWS services for encryption, governance, protection, and logging of all data that is part of data pipelines
- The ability to compare AWS services to understand the cost, performance, and functional differences between services
- How to structure SQL queries and how to run SQL queries on AWS services
- An understanding of how to analyze data, verify data quality, and ensure data consistency by using AWS services

**Domains & Competencies**

Domain 1: Data Ingestion and Transformation

Domain 2: Data Store Management

Domain 3: Data Operations and Support

Domain 4: Data Security and Governance

Detailed described domains, list of specific tools and technologies that might be covered on the exam, as well as lists of in-scope AWS services
https://d1.awsstatic.com/training-and-certification/docs-data-engineer-associate/AWS-Certified-Data-Engineer-Associate_Exam-Guide.pdf

**Exam overview**

Level: Associate

Length: 130 minutes to complete the exam

Cost: 150 USD (*when purchasing directly from AWS)

Visit Exam pricing for additional cost information.

Format: 65 questions, either multiple choice or multiple response.

Delivery method: Pearson VUE testing center or online proctored exam.

## Difficulty level





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