

AWS DEA-C01 Exam Preparation

AWS DEA-C01 Data Engineering. AWS data services, analytics pipelines, and hands-on labs.

[IT Certifications](#) Instructor: Brian Taylor • 5 sections • 46 lessons • 14.75h total

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About this course

This course prepares you for the AWS DEA-C01 exam. We cover data engineering concepts, AWS data services, and analytics pipelines. Hands-on labs, real scenarios, and practice exams included.

Course curriculum

Understanding the Exam Structure

- **How the DEA-C01 Exam is Organized (12m)**
Learn the exam format, question types, and scoring system to know exactly what to expect on test day.
- **Breaking Down the Exam Domains (18m)**
Get a clear breakdown of each exam section and how much weight each domain carries in your final score.
- **Setting Realistic Study Timelines (8m)**
Create a practical study schedule that fits your current work commitments and learning pace.
- **Identifying Your Knowledge Gaps (15m)**
Use our assessment tools to pinpoint exactly which areas need more focus in your preparation.
- **Choosing the Right Study Materials (10m)**
Navigate through various study resources and select the most effective ones for your learning style.
- **Setting Up Your Practice Environment (14m)**
Configure your AWS free tier account and practice environment for hands-on learning.
- **Understanding Question Patterns (16m)**
Recognize common question formats and learn strategies for answering multiple-choice and scenario-based questions.

Core AWS Data Analytics Services

- **How AWS Glue Works for ETL (22m)**
Master AWS Glue concepts and learn how to design efficient data transformation pipelines.
- **Amazon Redshift Deep Dive (25m)**
Understand Redshift architecture, optimization techniques, and common exam scenarios.
- **Amazon Kinesis Data Streams and Analytics (20m)**
Learn streaming data processing patterns and how to implement real-time analytics solutions.
- **Amazon Athena Query Optimization (18m)**
Discover best practices for writing efficient SQL queries and managing costs in Athena.
- **Amazon EMR Cluster Management (24m)**
Get hands-on with EMR cluster configuration, scaling, and troubleshooting common issues.
- **AWS Lake Formation Security (16m)**
Understand data governance, permissions, and security patterns for data lakes.
- **Amazon QuickSight Visualization (14m)**
Learn dashboard creation, embedded analytics, and cost optimization for QuickSight.
- **Data Pipeline Orchestration with AWS (21m)**
Design end-to-end data workflows using AWS Step Functions and managed services.
- **Real-World Data Analytics Architecture (28m)**
Analyze complete case studies showing how organizations implement AWS data solutions.

Advanced Exam Strategies

- **Tackling Complex Scenario Questions (19m)**
Learn systematic approaches for breaking down multi-part scenario questions and selecting the best answers.
- **Elimination Techniques for Multiple Choice (13m)**
Develop strategies to quickly eliminate wrong answers and increase your accuracy rate.
- **Time Management During the Exam (11m)**
Practice pacing techniques to ensure you complete all questions within the allotted time.
- **Handling Trick Questions and Distractors (17m)**
Identify common exam traps and learn how to spot the subtle differences between similar answers.
- **AWS Service Limits and Quotas (15m)**
Memorize and understand key service limits that frequently appear in exam questions.
- **Cost Optimization Scenarios (20m)**
Work through real cost optimization problems that test your ability to choose efficient solutions.
- **Security and Compliance Questions (16m)**
Master security best practices and compliance requirements for AWS data services.
- **Practice Exam Analysis Session (32m)**
Review detailed explanations for challenging practice questions and understand the reasoning behind each answer.

Hands-On Practice Labs

- **Building a Data Lake with Lake Formation (26m)**
Step-by-step lab to create and secure a data lake using AWS Lake Formation services.
- **ETL Pipeline with AWS Glue (24m)**
Build a complete ETL pipeline from data ingestion to transformation using AWS Glue.
- **Real-Time Analytics with Kinesis (28m)**
Set up streaming data processing and create real-time dashboards with Kinesis services.
- **Data Warehousing with Redshift (30m)**
Design and optimize a Redshift cluster for analytical workloads and query performance.
- **Serverless Analytics with Athena (22m)**
Create serverless analytics solutions and learn cost management techniques for Athena.
- **Big Data Processing with EMR (27m)**
Configure and run Spark jobs on EMR clusters for large-scale data processing.
- **Interactive Dashboards with QuickSight (19m)**
Build interactive BI dashboards and embed them in applications using QuickSight.
- **End-to-End Analytics Solution (35m)**
Combine multiple AWS services into a complete analytics solution for a business scenario.
- **Troubleshooting Common Issues (21m)**
Learn to diagnose and resolve typical problems that occur in AWS data analytics environments.
- **Performance Tuning Workshop (23m)**
Apply optimization techniques to improve query performance and reduce costs in practice labs.

Final Review and Exam Day

- **Creating Your Final Study Plan (14m)**
Develop a personalized review schedule focusing on your weakest areas before the exam.
- **Last-Minute Topic Review Checklist (12m)**
Use our comprehensive checklist to ensure you've covered all critical exam topics.
- **Practice Exam #1 Walkthrough (30m)**
Complete a full practice exam with detailed explanations for each question.
- **Practice Exam #2 Walkthrough (32m)**
Another full practice exam to build confidence and identify remaining weak spots.
- **Practice Exam #3 Walkthrough (29m)**
Final practice exam simulation to prepare you for the actual test experience.
- **Exam Day Preparation Tips (10m)**
Learn practical tips for the day before and day of the exam to maximize your performance.
- **Managing Test Anxiety (13m)**
Techniques to stay calm and focused during the exam to perform at your best.
- **Answer Review Strategies (15m)**
Learn how to effectively review your answers before submitting and catch mistakes.
- **What to Do After the Exam (8m)**
Understand the certification process, score reporting, and next steps after completing the exam.
- **Continuing Your AWS Learning Journey (11m)**
Discover advanced certifications and learning paths to continue growing your AWS expertise.
- **Final Q&A and Common Concerns (16m)**
Address frequently asked questions and concerns about the DEA-C01 certification process.
- **Course Wrap-Up and Resources (9m)**
Review all course materials, downloadable resources, and where to find additional support.

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