

# CompTIA Data+ (DAO-001)

## Student-ready learning path and practical course outline

A practical, student-friendly outline covering data Concepts and Environments, data Mining, data Analysis, data Visualization, and data Governance, Qual...

### MODULES

**6**

### LESSONS

**66**

### FORMAT

Self-paced

## Module Breakdown

<p><b>MODULE 1</b></p> <p><b>Data Concepts and Environments</b></p> <ul style="list-style-type: none"> <li>1.1 Module Overview</li> <li>1.2 Understanding Data Schemes</li> <li>1.3 Databases</li> <li>1.4 Demonstration - Google Cloud SQL</li> <li>1.5 Data Warehouses and Data Lakes</li> <li>1.7 Comparing OLTP and OLAP Processing</li> <li>1.8 Demonstration - AWS Redshift</li> <li>1.9 Demonstration - Deploy SQL DemoBench</li> <li>1.10 What is Column Database</li> <li>1.11 Data Structures, Files and Types</li> <li>1.12 Module Summary Review</li> <li>1.13 Module Review Questions</li> </ul>	<p><b>MODULE 2</b></p> <p><b>Data Mining</b></p> <ul style="list-style-type: none"> <li>2.1 Module 2 Overview</li> <li>2.2 Data Acquisition and Integration</li> <li>2.3 Demonstration - Data Integration Techniques</li> <li>2.4 API Fundamentals</li> <li>2.5 Demonstration - Google Vision API</li> <li>2.6 Data Profiling and Cleansing</li> <li>2.7 Data Collection Method Options</li> <li>2.8 Data Outliers</li> <li>2.9 Understanding ETL and ELT</li> <li>2.10 Query Optimization</li> <li>2.11 Understanding Data Manipulation Techniques</li> <li>2.12 Module Summary Review</li> <li>2.13 Module Review Questions</li> </ul>
<p><b>MODULE 3</b></p> <p><b>Data Analysis</b></p> <ul style="list-style-type: none"> <li>3.1 Module Overview</li> <li>3.2 Descriptive Statistical Methods</li> <li>3.3 Measures of Tendency and Dispersion</li> <li>3.4 Understanding Percentages</li> <li>3.5 Inferential Statistical Methods</li> <li>3.6 Hypothesis Testing with Excel</li> <li>3.7 Whiteboard - Linear Regression and Correlation</li> <li>3.8 Whiteboard - Analysis Testing</li> <li>3.9 Module Summary Review</li> <li>3.10 Module Review Questions</li> </ul>	<p><b>MODULE 4</b></p> <p><b>Data Visualization</b></p> <ul style="list-style-type: none"> <li>4.10 Module Review Questions</li> <li>4.1 Module Overview</li> <li>4.2 Translate Business Requirements to Reports</li> <li>4.3 Whiteboard - Translate Business Requirements</li> <li>4.4 Dashboard Fundamentals</li> <li>4.5 Demonstration - Dashboard Components</li> <li>4.6 Data Sources and Attributes</li> <li>4.7 Understanding Chart and Graphs</li> <li>4.8 Reports Type and Elements</li> <li>4.9 Module Summary Review</li> </ul>

## Module Breakdown (continued)

### MODULE 5

#### Data Governance, Quality and Controls

- 5.1 Module Overview
- 5.2 Introduction to Data Governance
- 5.3 The Data Lifecycle
- 5.4 Determining Data Classification
- 5.5 Data Ownership
- 5.6 Data Storage Access
- 5.7 Data Privacy and Frameworks
- 5.8 Information Rights Management (IRM) and Data Loss Prevention (DLP)
- 5.9 Setting Data Quality Control
- 5.10 Methods to Validate Quality
- 5.11 Data Transformation Tools
- 5.12 Data Security Fundamentals
- 5.13 Master Data Management (MDM)
- 5.14 Module Summary Review
- 5.15 Module Review Questions

### MODULE 6

#### Exam Preparation and Practice Exams

- 6.1 Module Overview
- 6.2 Course Summary Review
- 6.3 Data Plus Exam Experience
- 6.4 Certification CEU Requirements
- 6.5 Practice Exams-Additional Resources
- 6.6 Course Closeout