



**REAL WORLD**  
TECHNOLOGY TRAINING & SOLUTIONS  
"Training You Can Really Use"

# CompTIA Data+

**Duration: 5 Days**

**Method: Instructor-Led Training (ILT) | Live Online Training**

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**Certification:** *CompTIA Data+* — **Exam:** *DA0-001*

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## Course Description

This course teaches participants the knowledge and skills required to transform business requirements in support of data-driven decisions. They will learn to do so by mining and manipulating data, applying basic statistical methods, and analysing complex data sets while adhering to governance and quality standards throughout the entire data lifecycle. In addition, this course will help prepare participants to take the certification exam. Also, this course may earn participants a Credly Badge.

## Target Audience

This course is intended for:

- Data Analysts,
- Business Intelligence Analysts,
- Reporting Analysts,
- Marketing Analysts,
- Clinical Analysts,
- Business Data Analysts,
- Operations Analysts.

## Prerequisites

To attend this course, candidates are recommended to have:

- At least 18–24 months of experience in a report/business analyst job role,
- Exposure to databases and analytical tools,
- A basic understanding of statistics,
- Data visualization experience



**Microsoft** Partner

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## Exam Details

<b>Exam Code:</b>	• DA0-001
<b>Length of Exam:</b>	• 90 mins
<b>Number of Questions:</b>	• 90
<b>Passing Score:</b>	• 675 (on scale of 100–900)
<b>Question Format:</b>	• Multiple choice and performance-based

## Course Objectives

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

- Mine data.
- Manipulate data.
- Visualize and report data.
- Apply basic statistical methods.
- Analyse complex datasets while adhering to governance and quality standards throughout the entire data life cycle.

## Course Topics

### Module 1: Identifying Basic Concepts of Data Schemas

- Identify Relational and Non-Relational Databases
- Understand the Way We Use Tables, Primary Keys, and Normalization

### Module 2: Understanding Different Data Systems

- Describe Types of Data Processing and Storage Systems
- Explain How Data Changes

### Module 3: Understanding Types and Characteristics of Data

- Understand Types of Data
- Break Down the Field Data Types

### Module 4: Comparing and Contrasting Different Data Structures, Formats, and Markup Languages

- Differentiate between Structured Data and Unstructured Data
- Recognize Different File Formats
- Understand the Different Code Languages Used for Data





## Course Topics *Continued*

### Module 5: Explaining Data Integration and Collection Methods

- Understand the Processes of Extracting, Transforming, and Loading Data
- Explain API/Web Scraping and Other Collection Methods
- Collect and Use Public and Publicly Available Data
- Use and Collect Survey Data

### Module 6: Identifying Common Reasons for Cleansing and Profiling Data

- Learn to Profile Data
- Address Redundant, Duplicated, and Unnecessary Data
- Work with Missing Values
- Address Invalid Data
- Convert Data to Meet Specifications

### Module 7: Executing Different Data Manipulation Techniques

- Manipulate Field Data and Create Variables
- Transpose and Append Data
- Query Data

### Module 8: Explaining Common Techniques for Data Manipulation and Optimization

- Use Functions to Manipulate Data
- Use Common Techniques for Query Optimization

### Module 9: Applying Descriptive Statistical Methods

- Use Measures of Central Tendency
- Use Measures of Dispersion
- Use Frequency and Percentages

### Module 10: Describing Key Analysis Techniques

- Get Started with Analysis
- Recognize Types of Analysis

### Module 11: Understanding the Use of Different Statistical Methods

- Understand the Importance of Statistical Tests
- Break Down the Hypothesis Test
- Understand Tests and Methods to Determine Relationships Between Variables





## Course Topics *Continued*

### Module 12: Using the Appropriate Type of Visualization

- Use Basic Visuals
- Build Advanced Visuals
- Build Maps with Geographical Data
- Use Visuals to Tell a Story

### Module 13: Expressing Business Requirements in a Report Format

- Consider Audience Needs When Developing a Report
- Describe Data Source Considerations for Reporting
- Describe Considerations for Delivering Reports and Dashboards
- Develop Reports or Dashboards
- Understand Ways to Sort and Filter Data

### Module 14: Designing Components for Reports and Dashboards

- Design Elements for Reports and Dashboards
- Utilize Standard Elements
- Creating a Narrative and Other Written Elements
- Understand Deployment Considerations

### Module 15: Distinguishing Different Report Types

- Understand How Updates and Timing Affect Reporting
- Differentiate Between Types of Reports

### Module 16: Summarizing the Importance of Data Governance

- Define Data Governance
- Understand Access Requirements and Policies
- Understand Security Requirements
- Understand Entity Relationship Requirements

### Module 17: Applying Quality Control to Data

- Describe Characteristics, Rules, and Metrics of Data Quality
- Identify Reasons to Quality Check Data and Methods of Data Validation

### Module 18: Explaining Master Data Management Concepts

- Explain the Basics of Master Data Management
- Describe Master Data Management Processes

## LABS INCLUDED

