Data+

Price	Duration	Delivery Methods
$1,495.00	5 Daytime Classes or 10 Evening Classes	Virtual, Private Group,

CAREER SKILLS+™

CompTIA Data+ is an early-career data analytics certification for professionals tasked with developing and promoting data-driven business decision-making. CompTIA Data+ gives you the confidence to bring data analysis to life.

As the importance for data analytics grows, more job roles are required to set context and better communicate vital business intelligence. Collecting, analyzing, and reporting on data can drive priorities and lead business decision-making.

Who Should Attend

The CompTIA Data+ course is ideal for professionals aiming to cultivate foundational data analytics skills. This course is particularly well-suited for individuals in roles such as business analysts, marketing professionals, data analysts, and IT professionals who are responsible for managing data insights within their organizations. Additionally, it serves as an excellent starting point for those looking to transition into data-centric roles or enhance their understanding of data analysis and interpretation. This certification can be a stepping stone for anyone seeking to improve their data fluency and support data-driven decision-making processes in their career.

Course Prerequisites

There are no prerequisites for this course.

Course Objectives

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

Mining data
Manipulating data
Visualizing and reporting data
Applying basic statistical methods
Analyzing complex datasets while adhering to governance and quality standards throughout the entire data life cycle

Agenda

1 – Identifying Basic Concepts of Data Schemas
Identify Relational and Non-Relational Databases
Understand the Way We Use Tables, Primary Keys, and Normalization
2 – Understanding Different Data Systems
Describe Types of Data Processing and Storage Systems
Explain How Data Changes
3 – Understanding Types and Characteristics of Data
Understand Types of Data
Break Down the Field Data Types
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
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
6 – Identifying Common Reasons for Cleansing and Profiling Data
Learn to Profile Data
Address Redundant, Duplicated, and Unnecessary Data
Work with Missing Value
Address Invalid Data

Convert Data to Meet Specifications
7 – Executing Different Data Manipulation Techniques
Manipulate Field Data and Create Variables
Transpose and Append Data
Query Data
8 – Explaining Common Techniques for Data Manipulation and Optimization
Use Functions to Manipulate Data
Use Common Techniques for Query Optimization
9 – Applying Descriptive Statistical Methods
Use Measures of Central Tendency
Use Measures of Dispersion
Use Frequency and Percentages
10 – Describing Key Analysis Techniques
Get Started with Analysis
Recognize Types of Analysis
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
12 – Using the Appropriate Type of Visualization
Use Basic Visuals
Build Advanced Visuals
Build Maps with Geographical Data
Use Visuals to Tell a Story
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
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
15 – Understand Deployment Considerations
Understand How Updates and Timing Affect Reporting
Differentiate Between Types of Reports
16 – Summarizing the Importance of Data Governance
Define Data Governance
Understand Access Requirements and Policies
Understand Security Requirements
Understand Entity Relationship Requirements
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

18 – Explaining Master Data Management Concepts
Explain the Basics of Master Data Management
Describe Master Data Management Processes