



CompTIA DataX

Course Duration: 5 Days
Exam Reference: (DYO-001)

Course Overview

CompTIA DataX is the premier skills development program for highly experienced professionals seeking to validate competency in the rapidly evolving field of data science. It confirms your advanced-level knowledge and ensures you have the core skills necessary to manipulate data and extract meaning and generate actionable insights.

DataX provides a framework for knowledge acquisition and solidifies a comprehensive understanding of critical data tools and concepts, empowering individuals to advance their careers. The course covers a wide range of topics, including mathematics and statistics, machine learning, operations and processes, and specialized applications of data science. It ensures you have a holistic understanding of the field and are well-equipped to handle diverse data science tasks and challenges.

DataX is more than just a certification, it is a testament to your commitment to excellence in the field of data science. It validates your technical skills and demonstrates your expertise in handling complex data sets, implementing data-driven solutions and driving business growth through insightful data interpretation.

Prerequisites

5+ years of experience in data science or a similar role is recommended.



Contact Us



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CompTIA DataX

Course Objectives

CompTIA DataX solidifies your comprehensive understanding of critical data tools and concepts. The certification exam will certify that the successful candidate has the knowledge and skills required to:

- Understand and implement data science operations and processes.
- Apply mathematical and statistical methods appropriately and understand the importance of data processing and cleaning, statistical modeling, linear algebra and calculus concepts.
- Apply machine-learning models and understand deep-learning concepts.
- Utilize appropriate analysis and modeling methods and make justified model recommendations.
- Demonstrate understanding of industry trends and specialized data science applications.

Acquired skills for this course are:

- Mathematics and Statistics
 - Apply mathematical and statistical methods appropriately and understand the importance of data processing and cleaning, statistical modelling, linear algebra, and calculus concepts.
- Operations and Processes
 - Understand and implement data science operations and processes.
- Modeling, Analysis and Outcomes
 - Utilize appropriate analysis and modeling methods and make justified model recommendations.
- Specialized Applications of Data Science
 - Demonstrate understanding of industry trends and specialized data science
- Machine Learning
 - Apply machine learning models and understand deep learning concepts.



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Course Outline

Module 1: Illustrating the Data Science Lifecycle

Module 2: Analyzing Business Problems

Module 3: Collecting Data

Module 4: Cleaning and Preparing Data

Module 5: Describing Data Features

Module 6: Exploring Data

Module 7: Navigating the Model Selection Process

Module 8: Employing Machine Learning Methods

Module 9: Experimenting with Deep Learning

Module 10: Evaluating and Refining Data Models

Module 11: Communicating for Business Impact

Module 12: Deploying Data Models

Module 13: Discovering Specialized Data Science Applications