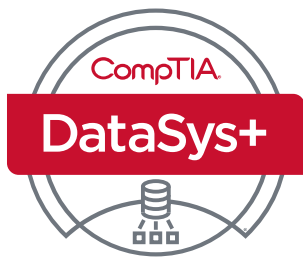




CompTIA Data Systems DataSys+



Course Overview

The CompTIA Data Systems (DataSys+) Certification (Exam DS0-001) course is specifically designed to equip candidates with the essential knowledge and skills needed to effectively deploy, manage, and maintain databases. This comprehensive course focuses on various key aspects, including scripting and programming fundamentals within a database environment, implementing robust security measures, and adhering to industry best practices for business continuity.

Prerequisites

No prerequisites, however, 2-3 years of experience in a database administrator role is recommended.

Target Audience

Database Administrator
Sr. Database Administrator
System Database Administrator
Task-Oriented Database Administrator
Application Database Administrator
Cloud Database Administrator
Specialist Database Administrator
Performance Database Administrator
Database Manager

Course Objectives

The CompTIA DataSys+ (DS0-001) certification exam is vendor neutral and covers what database administrators need to deploy, manage, and maintain data systems. In this course, you will learn:

- Database Fundamentals
- Database Deployment
- Database Management and Maintenance
- Data and Database Security
- Business Continuity

Duration

5 Days

Certifications

DSO-001

Contact Us



800.674.3550



2151 W. Hillsboro Blvd.
Suite 210
Deerfield Beach, FL 33442

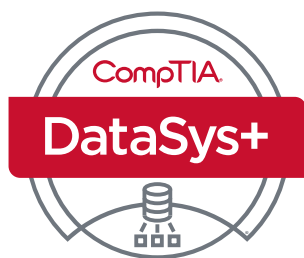
Connect with us



**APPLIED
TECHNOLOGY
ACADEMY**

Sign Up Today!





CompTIA

Data Systems

DataSys+



Course Outline

Lesson 1: Understanding Database Types and Structures

- Identify Relational and Non-Relational Databases
- Understand Different Types of NoSQL Databases and Tools
- Understand Relational Database Design
- Identify Other Data Systems

Lesson 2: Recognizing Standards and Commands

- Understand Standards and Principles
- Examine Operating Systems and Command Line Scripting

Lesson 3: Running Scripts for Data and Data Systems

- Create and Alter Objects Using Data Definition Language
- Manipulate Data Using Data Manipulation Language
- Work with Transactions
- Perform Data Management Tasks

Lesson 4: Explaining the Impact of Programming on Database Operations

- Work with Views
- Understand Object Relational Mapping
- Program with SQL
- Write Functions

Lesson 5: Understanding Database Planning and Design

- Understand Types of Architecture
- Gather Data System Requirements
- Review Documentation Requirements

Lesson 6: Implementing, Testing, and Deploying Databases

- Prepare for Deployment
- Conduct Testing and Other Quality Measures
- Understand Validation Techniques and Methods

Lesson 7: Monitoring and Reporting on Database Performance

- Consider Database Connectivity Needs
- Monitor the Database
- Understand and Address Deadlocks

Lesson 8: Understanding Common Data Maintenance Processes

- Explain Patch Management
- Ensure Database Performance
- Ensure Database Integrity

Lesson 9: Understanding Governance and Regulatory Compliance

- Understand the Importance of Protecting Data and Preventing Data Loss
- Understand Data Retention Policies
- Classify Data
- Consider Global Jurisdiction and Regional Regulations
- Understand Third-Party Agreements and Release Approvals

Lesson 10: Securing Data

- Understand Data Encryption
- Understand Data Masking
- Describe Data Destruction Techniques
- Audit Data Access
- Audit Code and Changes

Lesson 11: Securing Data Access

- Understand Identity and Access Management
- Understand Access Controls
- Understand Password Policies
- Work with Service Accounts

Lesson 12: Securing the Database and Server

- Utilize Physical Security
- Utilize Logical Security

Lesson 13: Classifying Types of Attacks

- Mitigate the SQL Injection Attack
- Mitigate the Denial of Service (DoS) Attack
- Mitigate the On-Path Attack
- Mitigate the Brute Force Attack
- Mitigate Social Engineering Attacks
- Mitigate Malware

Lesson 14: Planning for Disaster Recovery

- Plan for Disaster Recovery
- Conduct DR Plan Testing
- Transition/Failback to Normal Operations

Lesson 15: Implementing Backup and Restore Best Practices

- Identify Types of Backups
- Implement a Backup Strategy
- Store and Purge Backups

