

# uCertify

## Course Outline

### CompTIA DataSys (DS0-001)



05 Jul 2024

1. Course Objective
2. Pre-Assessment
3. Exercises, Quizzes, Flashcards & Glossary  
Number of Questions
4. Expert Instructor-Led Training
5. ADA Compliant & JAWS Compatible Platform
6. State of the Art Educator Tools
7. Award Winning Learning Platform (LMS)
8. Chapter & Lessons

Syllabus

Chapter 1: Introduction

Chapter 2: Today's Data Systems Professional

Chapter 3: Database Fundamentals

Chapter 4: SQL and Scripting

Chapter 5: Database Deployment

Chapter 6: Database Management and Maintenance

Chapter 7: Governance, Security, and Compliance

Chapter 8: Database Security

Chapter 9: Business Continuity

Videos and How To

9. Practice Test

Here's what you get

Features

10. Live labs

Lab Tasks

Here's what you get

11. Post-Assessment

## 1. Course Objective

The CompTIA DataSys+ course is designed to equip you with the essential skills and knowledge needed to excel in the field of data systems administration. This course will provide you with a solid foundation in managing data systems effectively. The course helps you explore the latest advancements and emerging technologies in the realm of data systems, including the transformative impact of cloud computing, virtualization, and containerization.

## 2. Pre-Assessment

Pre-Assessment lets you identify the areas for improvement before you start your prep. It determines what students know about a topic before it is taught and identifies areas for improvement with question assessment before beginning the course.

## 3. Exercises

There is no limit to the number of times learners can attempt these. Exercises come with detailed remediation, which ensures that learners are confident on the topic before proceeding.

**357**  
EXERCISES

## 4. Quiz

Quizzes test your knowledge on the topics of the exam when you go through the course material. There is no limit to the number of times you can attempt it.



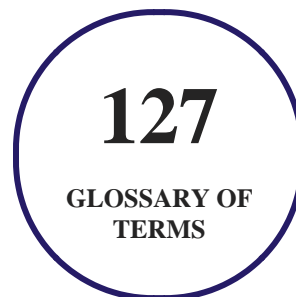
## 5. flashcards

Flashcards are effective memory-aiding tools that help you learn complex topics easily. The flashcard will help you in memorizing definitions, terminologies, key concepts, and more. There is no limit to the number of times learners can attempt these. Flashcards help master the key concepts.



## 6. Glossary of terms

uCertify provides detailed explanations of concepts relevant to the course through Glossary. It contains a list of frequently used terminologies along with its detailed explanation. Glossary defines the key terms.



## 7. Expert Instructor-Led Training

uCertify uses the content from the finest publishers and only the IT industry's finest instructors. They have a minimum of 15 years real-world experience and are subject matter experts in their fields. Unlike a live class, you can study at your own pace. This creates a personal learning experience and gives you all the benefit of hands-on training with the flexibility of doing it around your schedule 24/7.

## 8. ADA Compliant & JAWS Compatible Platform

uCertify course and labs are ADA (Americans with Disability Act) compliant. It is now more accessible to students with features such as:

- Change the font, size, and color of the content of the course
- Text-to-speech, reads the text into spoken words
- Interactive videos, how-tos videos come with transcripts and voice-over
- Interactive transcripts, each word is clickable. Students can clip a specific part of the video by clicking on a word or a portion of the text.

JAWS (Job Access with Speech) is a computer screen reader program for Microsoft Windows that reads the screen either with a text-to-speech output or by a Refreshable Braille display. Student can easily navigate uCertify course using JAWS shortcut keys.

## 9. State of the Art Educator Tools

uCertify knows the importance of instructors and provide tools to help them do their job effectively. Instructors are able to clone and customize course. Do ability grouping. Create sections. Design grade scale and grade formula. Create and schedule assessments. Educators can also move a student from self-paced to mentor-guided to instructor-led mode in three clicks.

## 10. Award Winning Learning Platform (LMS)

uCertify has developed an award winning, highly interactive yet simple to use platform. The SIIA CODiE Awards is the only peer-reviewed program to showcase business and education technology's finest products and services. Since 1986, thousands of products, services and solutions have been

recognized for achieving excellence. uCertify has won CODiE awards consecutively for last 7 years:

- **2014**

1. Best Postsecondary Learning Solution

- **2015**

1. Best Education Solution
2. Best Virtual Learning Solution
3. Best Student Assessment Solution
4. Best Postsecondary Learning Solution
5. Best Career and Workforce Readiness Solution
6. Best Instructional Solution in Other Curriculum Areas
7. Best Corporate Learning/Workforce Development Solution

- **2016**

1. Best Virtual Learning Solution
2. Best Education Cloud-based Solution
3. Best College and Career Readiness Solution
4. Best Corporate / Workforce Learning Solution
5. Best Postsecondary Learning Content Solution
6. Best Postsecondary LMS or Learning Platform
7. Best Learning Relationship Management Solution

- **2017**

1. Best Overall Education Solution
2. Best Student Assessment Solution
3. Best Corporate/Workforce Learning Solution
4. Best Higher Education LMS or Learning Platform

- **2018**

1. Best Higher Education LMS or Learning Platform

2. Best Instructional Solution in Other Curriculum Areas
3. Best Learning Relationship Management Solution

- **2019**

1. Best Virtual Learning Solution
2. Best Content Authoring Development or Curation Solution
3. Best Higher Education Learning Management Solution (LMS)

- **2020**

1. Best College and Career Readiness Solution
2. Best Cross-Curricular Solution
3. Best Virtual Learning Solution

## 11. Chapter & Lessons

uCertify brings these textbooks to life. It is full of interactive activities that keeps the learner engaged. uCertify brings all available learning resources for a topic in one place so that the learner can efficiently learn without going to multiple places. Challenge questions are also embedded in the chapters so learners can attempt those while they are learning about that particular topic. This helps them grasp the concepts better because they can go over it again right away which improves learning.

Learners can do Flashcards, Exercises, Quizzes and Labs related to each chapter. At the end of every lesson, uCertify courses guide the learners on the path they should follow.

### Syllabus

#### Chapter 1: Introduction

- The DataSys+ Exam
- What Does This Course Cover?
- Exam DS0-001 Exam Objectives

- DS0-001 Certification Exam Objective Map

## Chapter 2: Today's Data Systems Professional

- Data Drives the Modern Business
- Data Systems
- Careers in Data Systems
- Summary

## Chapter 3: Database Fundamentals

- Types of Databases
- Programming and Database Operations
- Summary
- Exam Essentials

## Chapter 4: SQL and Scripting

- Flavors of SQL
- Automating Operations
- Summary
- Exam Essentials



## Chapter 5: Database Deployment

- Planning and Design
- Implementation, Testing, and Deployment
- Summary
- Exam Essentials

## Chapter 6: Database Management and Maintenance

- Monitoring and Reporting
- Maintenance
- Facilitating Operations
- Data Management Tasks
- Summary
- Exam Essentials

## Chapter 7: Governance, Security, and Compliance

- Data Governance
- Identity and Access Management
- Data Security

- Data Classification
- Routine Auditing
- Summary
- Exam Essentials

## Chapter 8: Database Security

- Database Infrastructure Security
- Database Attacks
- Summary
- Exam Essentials

## Chapter 9: Business Continuity

- The Nature of Disaster
- Disaster Recovery Planning
- Backup and Restore
- Summary
- Exam Essentials

## 12. Practice Test

### Here's what you get

**65**  
PRE-ASSESSMENTS  
QUESTIONS

**2**  
FULL LENGTH TESTS

**90**  
POST-ASSESSMENTS  
QUESTIONS

### Features

Each question comes with detailed remediation explaining not only why an answer option is correct but also why it is incorrect.

#### Unlimited Practice

Each test can be taken unlimited number of times until the learner feels they are prepared. Learner can review the test and read detailed remediation. Detailed test history is also available.

Each test set comes with learn, test and review modes. In learn mode, learners will attempt a question and will get immediate feedback and complete remediation as they move on to the next question. In test mode, learners can take a timed test simulating the actual exam conditions. In review mode, learners can read through one item at a time without attempting it.

## 13. Live Labs

The benefits of live-labs are:

- Exam based practical tasks
- Real equipment, absolutely no simulations

- Access to the latest industry technologies
- Available anytime, anywhere on any device
- Break and Reset functionality
- No hardware costs

## Lab Tasks

### Database Fundamentals

- Creating an Entity-Relationship (ER) Diagram
- Creating a Comma-Separated Values (CSV) File

### SQL and Scripting

- Altering a Table
- Filtering the Data
- Aggregating Data
- Joining Tables

### Database Deployment

- Normalizing Data from 1NF to 2NF
- Normalizing Data from 2NF to 3NF

### Database Management and Maintenance

- Backing up a Database
- Creating a View

### Governance, Security, and Compliance

- Creating a Password in LastPass
- Creating a Connection

## Database Security

- Configuring a Network Firewall
- Configuring the Windows Defender Settings
- Exploiting the Database using SQL Injection

## Business Continuity

- Configuring RAID
- Installing the Failover Cluster Feature

## Here's what you get

17

LIVE LABS

14

VIDEO TUTORIALS

23


MINUTES

## 14. Post-Assessment


After completion of the uCertify course Post-Assessments are given to students and often used in conjunction with a Pre-Assessment to measure their achievement and the effectiveness of the exam.

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