

Password Technical College

44 Calle Félix Arce Lugo San Germán, PR 00683 https://passwordtech.org

SYLLABUS

GENERAL INFORMATION

Course Title: CompTIA DataSys+

Code: DS0-001

Contact Hours: 40

Academic Term: TBA

COURSE DESCRIPTION

The CompTIA DataSys+ course is designed to introduce participants to the fundamentals of data systems management, focusing on the skills needed to manage and maintain complex data systems effectively. This course explores database administration, data storage solutions, data system troubleshooting, and performance optimization. Upon completion of this course, students will have a deep understanding of the backend operations that support data-intensive applications and will be prepared to sit for the CompTIA DataSys+ certification exam. This certification is ideal for aspiring data administrators, IT professionals, and anyone interested in the technical aspects of data systems management.

GENERAL OBJECTIVES

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

- Understand the architecture and management of modern data systems.
- Implement and manage data storage solutions.
- Monitor and optimize data system performance.
- Troubleshoot common issues in data systems.
- Ensure data integrity and security.
- Apply best practices in database administration and data recovery.



Password Technical College

44 Calle Félix Arce Lugo San Germán, PR 00683 https://passwordtech.org

COURSE CONTENT

Lesson 1: Understanding Database Types and Structures

Lesson 2: Recognizing Standards and Commands

Lesson 3: Running Scripts for Data and Data Systems

Lesson 4: Explaining the Impact of Programming on Database Operations

Lesson 5: Understanding Database Planning and Design

Lesson 6: Implementing, Testing, and Deploying Databases

Lesson 7: Monitoring and Reporting on Database Performance

Lesson 8: Understanding Common Data Maintenance Processes

Lesson 9: Understanding Governance and Regulatory Compliance

Lesson 10: Securing Data

Lesson 11: Securing Data Access

Lesson 12: Securing the Database and Server

Lesson 13: Classifying Types of Attacks

Lesson 14: Planning for Disaster Recovery

Lesson 15: Implementing Backup and Restore Best Practices



Password Technical College

44 Calle Félix Arce Lugo San Germán, PR 00683 https://passwordtech.org

EVALUATION CRITERIA

Criteria	Grade Total
Mid-Term Exam	100
Final Exam	100
Quizzes	100
Assessment	100
Laboratories	100
Total	500

Assignments are due in class on the designated day. Late submissions will incur a penalty of one letter grade per day late, unless previously discussed and approved for extension.

EDUCATIONAL RESOURCES

Hunt, R.E., Bishop, D., & Miranda, T. (2023). The Official CompTIA DataSys+ Guide (DS0-001) eBook. CompTIA Inc., Downers Grove, Illinois.

ISBN: 978-1-64274-495-8

NOTES

- **Reasonable Accommodation:** Any student needing accommodation should make a request at the beginning of the course or as soon as possible thereafter.
- Academic Integrity: Honesty, fraud, plagiarism, and other forms of academic misconduct are violations of the institution's policies and may result in disciplinary action, including suspension or expulsion.