CompTIA DataAI (DY0-001)

Duration 5 Days

COURSE DESCRIPTION

CompTIA DataAI is an expert-level certification designed for experienced data professionals ready to work at the intersection of data science, AI, and enterprise operations.

The certification targets senior data analysts, data scientists, data engineers, and IT professionals who are already working with analytics, cloud platforms, and AI-enabled tools—and who want to move into more advanced, AI-infused roles.

Aligned with CompTIA's Xpert Series, DataAI reflects how advanced data roles have evolved. Statistical rigor, machine learning, MLOps, and business outcomes are no longer separate concerns. The certification confirms that a professional can move beyond analysis into building trustworthy, scalable AI systems that deliver measurable results.

COURSE OBJECTIVES

- **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.
- **Modeling, Analysis and Outcomes:** Utilize appropriate analysis and modeling methods and make justified model recommendations.
- **Machine Learning:** Apply machine learning models and understand deep learning concepts.
- **Operations and Processes:** Understand and implement data science operations and processes.
- **Specialized Applications of Data Science:** Demonstrate understanding of industry trends and specialized data science in various fields.

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
- Module10: Evaluating and Refining Data Models
- Module 11: Communicating for Business Impact
- Module 12: Deploying Data Models
- Module 13: Discovering Specialized Data Science Applications

WHO SHOULD ATTEND

This course is designed for experienced data and analytics professionals who wish to validate and expand their skills in data science, machine learning, and AI.

- Experienced Data Scientists
- Senior Data Analysts and Analytics Professionals
- Machine Learning Engineers
- AI and Machine Learning Specialists
- Data Science Consultants
- Data Modellers and Statistical Modellers
- Data Engineers transitioning into advanced modelling roles
- MLOps Professionals and Technical Professionals responsible for deploying and monitoring data models
- Professionals involved in designing, developing, or managing AI-driven data solutions
- Experienced data professionals seeking a vendor-neutral certification

PREREQUISITES

There are no mandatory prerequisites for attending the CompTIA DataAI course or sitting the DY0-001 examination.

However, CompTIA recommends that candidates have at least five years of hands-on experience in data science or a comparable professional role.

Delegates should have prior knowledge and practical experience in the following areas:

- Data science processes and the data lifecycle
- Data collection, cleaning and preparation
- Exploratory data analysis, mathematics and statistics
- Python or R programming
- Machine learning concepts and techniques
- Structured and unstructured datasets
- Data visualisation and analytical communication
- Basic model development, testing and evaluation

This is an expert-level course and is not designed for beginners in data analysis, programming or artificial intelligence.

Delegates should also be prepared to undertake independent study and additional laboratory exercises outside scheduled training sessions.

EXAM DETAILS

- Exam version: V1
- Exam series code: DY0-001
- Number of questions: maximum of 90 questions (multiple-choice and performance-based)
- Duration: 165 minutes
- Language: English and Japanese
- Recommended experience: 5+ years in data science or a similar role

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