



MICROSOFT TRAINING

# Data Services Platform Transforms Ds10 Language Course

*Master Microsoft Data Services Platform to transform data efficiently using DS10 language.  
Develop robust data solutions for enhanced insights.*

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DURATION

**24 hours**

LEVEL

**Intermediate**

FORMAT

**Instructor-Led**

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- Globally Recognized Certification

- Expert-Led Hands-On Training

- Flexible Scheduling

Computer Pride | 1st Floor, ICEA Building, Kenyatta Avenue, Nairobi | [www.computer-pride.co.ke](http://www.computer-pride.co.ke)

## COURSE OVERVIEW

This intermediate-level course, "Data Services Platform Transforms Ds10 Language," is meticulously designed for IT professionals seeking to master advanced data transformation techniques within Microsoft's robust data services ecosystem. Participants will gain a deep understanding of how to leverage the specialized Ds10 Language to design, implement, and manage complex data pipelines. The curriculum focuses on empowering learners to extract, transform, and load data efficiently, ensuring data integrity and optimizing performance across various Microsoft data platforms such as Azure Data Factory, Azure Synapse Analytics, and SQL Server Integration Services (SSIS).

Through hands-on exercises and real-world scenarios, attendees will learn to craft intricate transformation logic, handle diverse data types, and implement sophisticated data cleansing and enrichment strategies using Ds10. This course will significantly enhance your ability to build scalable and resilient data integration solutions, preparing you to tackle the challenges of modern data warehousing, business intelligence, and big data analytics. Mastering the Ds10 Language and its application within Microsoft's Data Services Platform is a critical skill for anyone aiming to drive data-driven insights and innovation within their organization.

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|----------|--------------|
| Duration | 24 hours     |
| Level    | Intermediate |
| Vendor   | Microsoft    |

## COURSE CURRICULUM

### 01 Module 1: Introduction to Data Services Platform & Ds10 Fundamentals

- Overview of Microsoft Data Services Platform (Azure Data Factory, Synapse, SSIS)
- Understanding Data Transformation Concepts (ETL/ELT)
- Introduction to Ds10 Language Syntax and Structure
- Setting up your development environment for Ds10
- Basic Data Extraction and Loading with Ds10

### 02 Module 2: Core Ds10 Language Constructs and Data Manipulation

- Variables, Data Types, and Operators in Ds10
- Control Flow Statements (Conditional Logic, Loops)
- Functions and Expressions for Data Transformation
- Working with Different Data Formats (CSV, JSON, XML)
- Data Cleansing and Validation Techniques using Ds10

### 03 Module 3: Advanced Data Transformation with Ds10

- Implementing Complex Join and Merge Operations
- Aggregations and Grouping Data with Ds10
- Data Pivoting and Unpivoting
- Handling Slowly Changing Dimensions (SCD Type 1, 2, 3)
- Error Handling and Logging Strategies in Ds10 Transformations

### 04 Module 4: Integrating Ds10 with Microsoft Data Services

- Orchestrating Ds10 Transformations within Azure Data Factory Pipelines
- Deploying and Executing Ds10 Scripts in Azure Synapse Analytics
- Integrating Ds10 with SSIS Packages for Hybrid Scenarios
- Security Best Practices for Data Transformations

- Performance Tuning and Optimization of Ds10 scripts

## 05 Module 5: Monitoring, Debugging, and Best Practices

- Monitoring Data Pipelines and Ds10 Execution
- Debugging Techniques for Complex Ds10 Transformations
- Version Control and Collaboration for Ds10 Projects
- Documentation and Maintenance of Ds10 Solutions
- Designing Scalable and Maintainable Data Transformation Architectures

## CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Azure Data Engineer specializing in ETL/ELT pipeline development**
- > **Data Integration Specialist focusing on Microsoft Data Services**
- > **Business Intelligence Developer optimizing data warehousing solutions**

## FREQUENTLY ASKED QUESTIONS

### **Q: What specific skills will I gain that are immediately applicable to my data engineering role after completing this Ds10 course?**

Upon completion, you will be proficient in designing, coding, and deploying advanced data transformation logic using the Ds10 Language within Microsoft's data services. You'll gain practical skills in orchestrating complex ETL/ELT pipelines in Azure Data Factory, performing intricate data manipulations in Azure Synapse Analytics, handling diverse data formats, implementing robust error handling, and optimizing the performance of your data integration solutions. This directly translates to building more efficient and reliable data workflows in your daily tasks.

### **Q: What are the essential prerequisites for enrolling in the 'Data Services Platform Transforms Ds10 Language' course?**

To get the most out of this intermediate-level course, participants should have a foundational understanding of data warehousing concepts, basic SQL knowledge, and some familiarity with either Azure Data Factory or SQL Server Integration Services (SSIS). Prior experience with general programming or scripting concepts will also be beneficial, as the Ds10 Language involves coding data transformation logic.

### **Q: How does mastering the Ds10 Language specifically enhance my career trajectory as a Microsoft Data Platform professional?**

Mastering the Ds10 Language significantly elevates your profile by making you an expert in a specialized, powerful transformation tool within the Microsoft ecosystem. This unique skill set allows you to tackle more complex data integration challenges, build highly optimized data pipelines, and contribute to advanced analytics and business intelligence initiatives. It positions you as a valuable asset for organizations leveraging Microsoft's cloud and on-premise data services, potentially leading to senior data engineering roles, specialized consultant positions, and increased opportunities for project leadership.

## ABOUT COMPUTER PRIDE



## East Africa's Premier IT Training Center

With over 15 years of excellence, Computer Pride delivers globally recognized certification programs from leading technology vendors. Located on Kenyatta Avenue in Nairobi's CBD, our state-of-the-art facilities and expert instructors have empowered thousands of professionals across East Africa.

# 15+

Years of Excellence

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## READY TO ENROL?

Take the next step in your technology career.

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