



MICROSOFT TRAINING

Azure Data Factory Course

Design and implement robust ETL solutions on Azure Data Factory for scalable cloud data integration.

DURATION

8 hours

LEVEL

Intermediate

FORMAT

Instructor-Led

-
- Globally Recognized Certification
 - Expert-Led Hands-On Training
 - Flexible Scheduling

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COURSE OVERVIEW

The Azure Data Factory (ADF) Course at Computer Pride is specifically designed to equip data professionals with the essential skills to build, deploy, and manage scalable data integration solutions in the Microsoft Azure cloud. This intermediate-level course focuses on leveraging ADF to orchestrate and automate data movement and transformation across various data sources and sinks, a critical capability for modern data warehousing, analytics, and machine learning workflows. Participants will gain hands-on experience with core ADF components, including pipelines, activities, datasets, linked services, and integration runtimes.

Throughout the 8-hour intensive program, you will learn to construct robust ETL/ELT processes, integrate with other Azure services like Azure Blob Storage, Azure SQL Database, and Azure Synapse Analytics, and implement monitoring and security best practices. By mastering Azure Data Factory, you will significantly enhance your ability to design and implement efficient, cloud-native data pipelines, ensuring timely and reliable data delivery for business intelligence and advanced analytics initiatives. This course is ideal for professionals looking to migrate on-premise data workloads to the cloud, optimize existing cloud data solutions, or enter the rapidly growing field of cloud data engineering.

Duration	8 hours
Level	Intermediate
Vendor	Microsoft

COURSE CURRICULUM

01 Module 1: Introduction to Azure Data Factory

- Understanding Data Integration in Azure
- Overview of Azure Data Factory Architecture
- Core Components: Pipelines, Activities, Datasets, Linked Services
- Navigating the Azure Data Factory UI
- Setting up your first Data Factory instance

02 Module 2: Data Movement and Storage

- Configuring Linked Services for Various Data Stores (Azure Blob, SQL DB, ADLS Gen2)
- Creating Datasets for Source and Sink
- Implementing the Copy Activity for Data Ingestion
- Understanding Integration Runtimes (Azure, Self-Hosted)
- Incremental Data Loading Strategies

03 Module 3: Data Transformation and Orchestration

- Control Flow Activities: ForEach, If Condition, Wait
- Data Transformation with Data Flow (Basics of Mapping Data Flows)
- Integrating with Azure SQL Database Stored Procedures and Functions
- Executing Azure Databricks Notebooks from ADF
- Orchestrating complex data workflows

04 Module 4: Monitoring, Troubleshooting, and Security

- Monitoring ADF Pipelines and Activities
- Setting up Alerts and Notifications
- Troubleshooting Common ADF Errors
- Securing Data Factory with Managed Identities

- Role-Based Access Control (RBAC) for ADF

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Azure Data Engineer**
- > **Cloud ETL Developer**
- > **Data Integration Specialist**

FREQUENTLY ASKED QUESTIONS

Q: Who is this Azure Data Factory course best suited for, and what prior knowledge is recommended?

This course is ideal for data engineers, ETL developers, data analysts, and solution architects who have a foundational understanding of Azure services and basic SQL concepts. While not strictly required, familiarity with data warehousing principles and scripting languages like PowerShell or Python can be beneficial for maximizing your learning experience.

Q: What practical data integration challenges will I be able to solve after completing this specific Azure Data Factory course?

Upon completion, you will be able to design and implement automated data pipelines to move and transform data between various on-premises and cloud data sources to Azure. You'll be equipped to handle scenarios like migrating large datasets to Azure, orchestrating complex ETL/ELT workflows for data lakes and data warehouses, and preparing data for consumption by reporting tools and analytical applications, all within a scalable cloud environment.

Q: How does proficiency in Azure Data Factory enhance my career prospects in the cloud data domain?

Mastering Azure Data Factory makes you a highly valuable asset in any organization leveraging Azure for data solutions. It positions you for roles focused on cloud-native ETL, data lake management, and modern data warehousing. The ability to efficiently integrate and transform data at scale is a critical skill for Azure Data Engineers and Cloud Architects, significantly boosting your employability and career advancement in the rapidly evolving cloud ecosystem.

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

10,000+

Professionals Trained

50+

Vendor Certifications

READY TO ENROL?

Take the next step in your technology career.

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