



MICROSOFT TRAINING

Azure Synapse Course

Master Azure Synapse to unify data integration, enterprise data warehousing, and big data analytics. Gain powerful insights from your data.

DURATION

8 hours

LEVEL

Intermediate

FORMAT

Instructor-Led

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

Computer Pride | 1st Floor, ICEA Building, Kenyatta Avenue, Nairobi | www.computer-pride.co.ke

COURSE OVERVIEW

The Azure Synapse Analytics Course at Computer Pride offers an intensive 8-hour deep dive into Microsoft's cutting-edge unified analytics platform. This intermediate-level training is meticulously designed for professionals looking to master the convergence of data warehousing, big data processing, and data integration within a single service. You'll gain hands-on experience with Synapse SQL pools for structured data, Apache Spark pools for big data and machine learning, and Synapse Pipelines for robust data orchestration, all within the intuitive Azure Synapse Studio. The course emphasizes practical application, ensuring you can immediately apply your new skills to real-world data challenges.

Duration	8 hours
Level	Intermediate
Vendor	Microsoft

COURSE CURRICULUM

01 Module 1: Introduction to Azure Synapse Analytics

- Understanding Azure Synapse Analytics architecture and components
- Key use cases for a unified analytics platform
- Navigating Azure Synapse Studio
- Overview of SQL Pools, Spark Pools, and Data Explorer

02 Module 2: Data Ingestion and Storage with Azure Synapse

- Integrating Azure Data Lake Storage Gen2 with Synapse
- Data ingestion strategies using Synapse Pipelines
- Working with various data formats (Parquet, Delta Lake, CSV, JSON)
- Monitoring data ingestion activities

03 Module 3: Data Warehousing with Synapse SQL Pools

- Deep dive into Dedicated SQL Pools (formerly SQL DW)
- Querying data with Serverless SQL Pool
- Designing optimal data models for analytical workloads
- Implementing data loading and transformation techniques in SQL Pools

04 Module 4: Big Data Processing with Synapse Apache Spark Pools

- Introduction to Apache Spark within Azure Synapse
- Processing large datasets using Spark notebooks (PySpark/Scala)
- Data transformation and manipulation with Spark DataFrames
- Integrating Spark with machine learning workloads

05 Module 5: Orchestration, Security, and Monitoring

- Building and scheduling data pipelines for end-to-end workflows
- Implementing security best practices in Azure Synapse (RBAC, VNETs, encryption)
- Monitoring Synapse activities and performance using Azure Monitor
- Connecting Azure Synapse to Power BI for data visualization

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Azure Data Engineer specializing in scalable data pipeline design and implementation.**
- > **Business Intelligence Developer focused on creating advanced analytics solutions and dashboards.**
- > **Big Data Architect designing unified analytics platforms on Azure.**

FREQUENTLY ASKED QUESTIONS

Q: What are the recommended prerequisites for taking this intermediate Azure Synapse Course?

To get the most out of this intermediate course, it is highly recommended that participants have a foundational understanding of core Azure services, particularly Azure Data Lake Storage and basic SQL querying skills. Prior experience with data warehousing concepts and some exposure to big data technologies (like Apache Spark) would also be beneficial but is not strictly required.

Q: How will this course help me solve real-world data integration and analytics challenges?

This course is designed to equip you with practical skills to tackle complex data challenges by leveraging Azure Synapse's unified capabilities. You will learn to integrate disparate data sources, perform large-scale data warehousing and big data processing, and orchestrate automated data pipelines, enabling you to build robust, scalable analytics solutions for your organization. You'll understand how to optimize queries, manage computational resources, and secure your data effectively within the Synapse ecosystem.

Q: Does this course cover the integration of Azure Synapse with other Microsoft data platforms like Azure Data Factory or Power BI?

Yes, this course provides hands-on knowledge of how Azure Synapse seamlessly integrates with other critical Microsoft data services. You will learn to use Synapse Pipelines, which share strong similarities with Azure Data Factory, for powerful data orchestration. Furthermore, a significant portion of the final module is dedicated to connecting your processed data in Azure Synapse to Power BI, enabling you to build interactive dashboards and reports directly from your analytics workspace.

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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