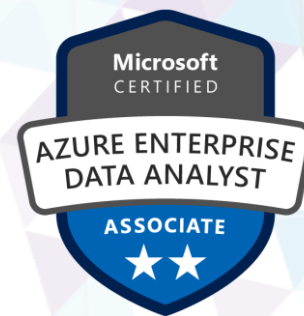# Course Contents

DP-500: Designing and Implementing Enterprise-Scale Analytics Solutions Using Microsoft Azure and Microsoft Power BI

Duration: **4 Days**	**Level**: **Intermediate**	**Role**: **Data Analyst**
Certification: **Available**	**Public Schedules**: <u>View Dates</u>	**Private Delivery:** <u>Reach Us</u>

What's included?

- ✓ Learn from Microsoft Certified Trainer (MCT's)
- ✓ 24x7 Lab Access
- ✓ Official Courseware
- ✓ Exam Preps / Practice Tests
- ✓ Badges & Completion Certificate
- ✓ Discounted Exam Vouchers

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Overview

This course covers methods and practices for performing advanced data analytics at scale. Students will build on existing analytics experience and will learn to implement and manage a data analytics environment, query and transform data, implement and manage data models, and explore and visualize data. In this course, students will use Microsoft Purview, Azure Synapse Analytics, and Power BI to build analytics solutions.

Audience Profile

Candidates for this course should have subject matter expertise in designing, creating, and deploying enterprise-scale data analytics solutions. Specifically, candidates should have advanced Power BI skills, including managing data repositories and data processing in the cloud and on-premises, along with using Power Query and Data Analysis Expressions (DAX). They should also be proficient in consuming data from Azure Synapse Analytics and should have experience querying relational databases, analyzing data by using Transact-SQL (T-SQL), and visualizing data.

Contents

Learning path 1: Introduction to data analytics on Azure

- Explore Azure data services for modern analytics
- Understand concepts of data analytics
- Explore data analytics at scale

Learning Path 2: Govern data across an enterprise

- Introduction to Microsoft Purview
- Discover trusted data using Microsoft Purview
- Catalog data artifacts by using Microsoft Purview
- Manage Power BI assets by using Microsoft Purview

Learning Path 3: Model, query, and explore data in Azure Synapse

- Introduction to Azure Synapse Analytics
- Use Azure Synapse serverless SQL pool to query files in a data lake
- Analyze data with Apache Spark in Azure Synapse Analytics
- Analyze data in a relational data warehouse

Learning Path 4: Prepare data for tabular models in Power BI

- Choose a Power BI model framework
- Understand scalability in Power BI
- Create and manage scalable Power BI dataflows

Learning Path 5: Design and build tabular models

- Create Power BI model relationships
- Understand DAX concepts
- Create calculation groups
- Enforce Power BI model security
- Use tools to optimize Power BI performance

Learning Path 6: Implement advanced data visualization techniques by using power BI

- Understand advanced data visualization concepts
- Monitor data in real-time with Power BI

Learning Path 7: Implement and manage an analytics environment

- Provide governance in a Power BI environment
- Monitor and audit usage
- Broaden the reach of Power BI

Learning Path 8: Manage the analytics development lifecycle

- Design a Power BI application lifecycle management strategy
- Create and manage a Power BI deployment pipeline
- Create and manage Power BI assets

About GTech Learn

Established in 2011 in the USA, GTech Learn is one of the leading IT training organizations in North America & South East Asia. Driven by its unique USPs, GTech Learn is spurring competition, meeting the unmet needs of customers, assisting in skills upgrade, and supplementing talent pools with its presence in the USA, Canada, Singapore and India. This is consistent with our vision to help our Learners with skills upgrade for enhanced career opportunities.

As a Microsoft Learning Partner, we offer a broad range of learning solutions across the full Microsoft technology stack that can be customized.

Since 2011, GTech Learn has been developing custom-fit learning solutions that involve creating and delivering maximum results.

We have successfully helped all types of businesses, government entities, and individuals. For this reason, GTech has chosen by Microsoft to deliver comprehensive learning programs around the globe.

With flexible learning options, state-of-the-art delivery methods, numerous language preferences, experienced instructors, and complete dedication to our students, GTech Learn has the capabilities to help students develop their Microsoft skill sets and achieve increasingly high standards of productivity while organizations of all sizes realize the full potential of their technology investments.

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