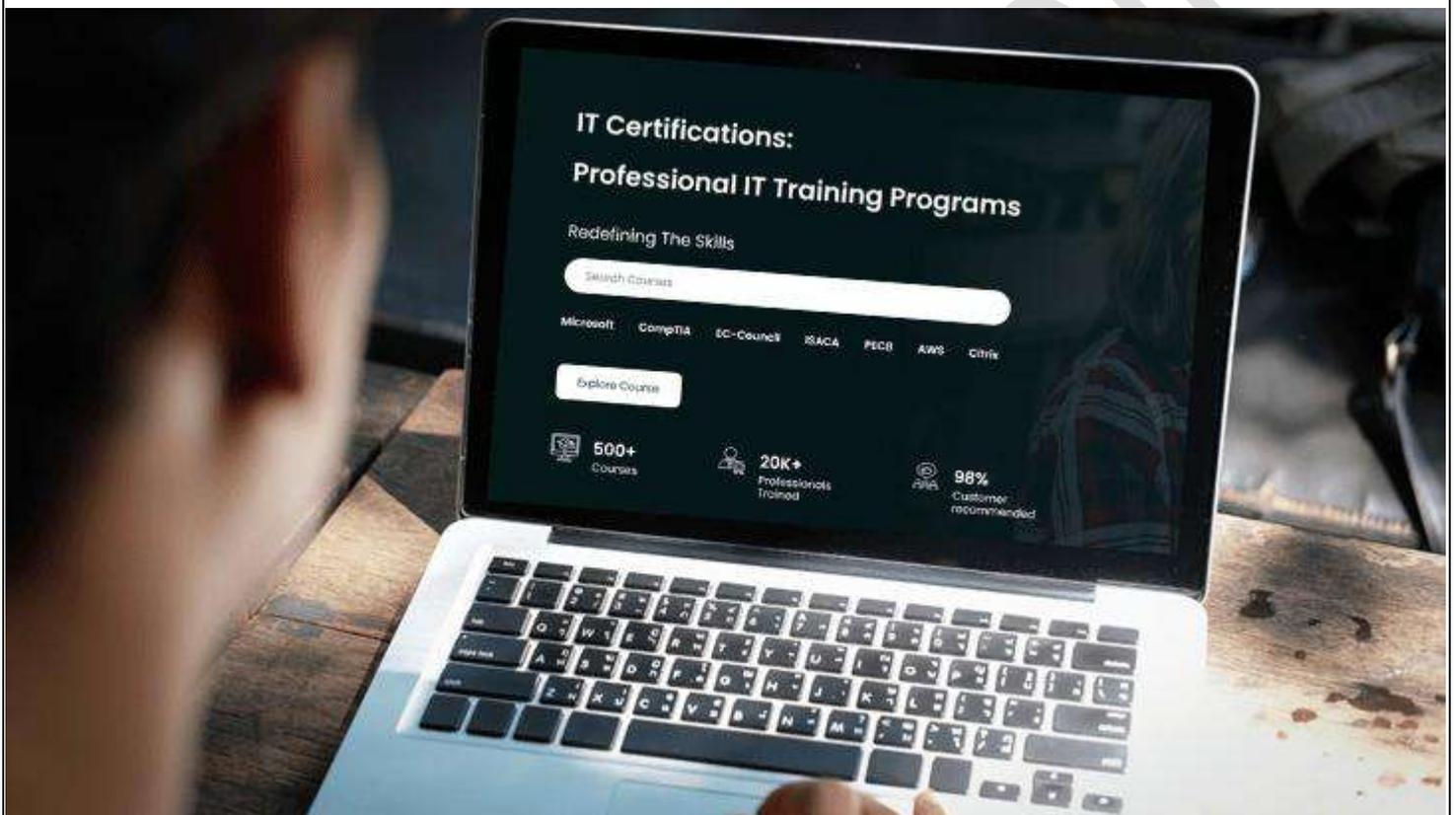# 552241: MICROSOFT AZURE BIG DATA ANALYTICS SOLUTIONS TRAINING

Duration: 2 Days

Course Description

552241: Microsoft Azure Big Data Analytics Solutions Training is a program that focuses on helping professionals enhance their knowledge about developing big data analytics solutions on Microsoft Azure. This technical course master's in teaching professionals to create solutions for batch and real-time data processing. It also covers multiple methods to focus on the use of Azure and operationalize cloud analytics solutions.

Throughout the course, individuals will learn to ingest data for batch processing and interactive design queries. This course also gives one a deep understanding of ingesting data for real-time processing and creative workspaces while publishing web services.

Our enterprise training program is best for organizations and companies. This training is ideal for data professionals who closely work with designing big data analytics solutions on Microsoft Azure.

This training is designed based on the objectives of the course variant 552241A.

Who should attend this course?

- Any professional experienced with data who can create big data analytics solutions on Microsoft Azure and wants to leverage their existing knowledge to develop big data real-time processing solutions.
- Given below are professionals who can use Microsoft Azure Big Data Analytics Solution Training to upskill their current positions:
  - Database Managers and Administrators
  - Bog Data Specialists
  - Data Engineers
  - Data Analyst
  - Business Intelligence Professionals
  - System Administrators
  - Cloud Solution Architects

What you will learn

- Creating big data real-time processing solutions
- Operating end-to-end cloud analytics solutions
- Designing interactive solutions and big data batch processing

Prerequisites

- Familiarity with cloud computing concepts, specifically Microsoft Azure is beneficial.
- Prior understanding of core data concepts, like relational databases, data analysis, and non-relational databases is an advantage.
- Prior experience with programming or scripting languages for the optional PowerShell module for preference PowerShell, Python, or similar)
- Please note that the above prerequisite acts only as an advantage, learners with less comprehension of the subject are also welcome as this course provides a basic understanding of all the matter.

Curriculum

Module 1: Design big data batch processing and interactive solutions (552241A)

This module explains how to load data into Microsoft Azure for batch processing.

Lessons

- Module Objectives
- Lesson 1: Ingest data for batch processing
- Lesson 2: Design for batch processing
- Lesson 3: Design interactive queries
- Review

Lab 1: Design big data batch processing and interactive solutions

- Exercise 1: Load data into Microsoft Azure
- Exercise 2: Prepare data for batch processing
- Exercise 3: Query the data

After completing this module, students will be able to:

- Load data into Microsoft Azure
- Prepare data for batch processing
- Query the data

Module 2: Design Big Data Real-Time Processing Solutions (552241A)

This module explains how to load data into Microsoft Azure for real-time processing.

Lessons

- Module Objectives
- Lesson 1: Ingest data for Real-Time Processing
- Lesson 2: Designing for Real-Time Processing
- Lesson 3: Design interactive queries for Big Data
- Review

Lab 1: Design Big Data Real-Time Processing Solutions

- Exercise 1: Load data into Microsoft Azure
- Exercise 2: Prepare data for Real-Time Event Processing
- Exercise 3: Visualize the Data

After completing this module, students will be able to:

- Load data into Microsoft Azure
- Prepare data for real-time event processing
- Visualize the data

Module 3: Operationalize end-to-end cloud analytics solutions (552242A)

This module explains how to Azure Data Factory to centrally manage data from different sources.

Lessons

- Module Objectives
- Lesson 1: Create a data factory
- Lesson 2: Create a data-driven workflow
- Lesson 3: Monitor and Manage the data factory
- Lesson 4: Move, Transform and Analyze Data
- Lesson 5: Design a deployment strategy for an end-to-end solution

- Review

Lab 1: Operationalize end-to-end cloud analytics solutions

- Exercise 1: Create a data factory
- Exercise 2: Create a data-driven workflow
- Exercise 3: Monitor and Manage the data factory
- Exercise 4: Move, Transform and Analyze Data
- Exercise 5: Design a deployment strategy for an end-to-end solution

After completing this module, students will be able to:

- Create, Manage & Monitor a data factory
- Create a data driven workflow
- Move, Transform and Analyze Data
- Create a deployment strategy using PowerShell

Module 4: Appendix B: PowerShell for Technology Professionals (552241A Optional)

This module explains how to use PowerShell to administer computer, network, application and Azure resources.

Lessons

- Introduction
- Compared to Other Scripting Languages
- Configuring and Using PowerShell
- Creating and Running Scripts
- Administering Local Resources
- Administering Network Resources
- Resolve PowerShell Scripting Problems

Lab 1: Operationalize end-to-end cloud analytics solutions

- Exercise 1: Use PowerShell to get Computer Information
- Exercise 2: Use PowerShell documentation to understand and use cmdlets
- Exercise 3: Create and execute scripts
- Exercise 4: Configure and test Remote Management
- Exercise 5: Create and Azure VM with Azure PowerShell

After completing this module, students will be able to:

- Use PowerShell to get Computer Information
- Use PowerShell documentation to understand and use cmdlets
- Create and execute scripts
- Configure and test Remote Management
- Create and Azure VM with Azure PowerShell

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