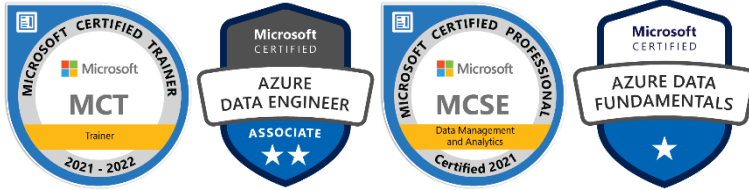


Azure Data Engineer

Venkata Krishna Rao Gundapu



Course Duration: 30Hrs

Resources:

- Live and Recorded Sessions
- Data Engineering workshop for Real-Time experience
- Azure environment for practicing during the course period
- Free 100\$ Azure Credits at the end of the course

Course Content:

- **Module 0: Introduction**
 - Welcome to the Course
- **Module 1: Azure for the Data Engineer**
 - Module Introduction
 - The Evolving World of Data
 - Surveying the Azure Data Platform
 - Data Engineering Roles and Responsibilities
 - Module Summary
- **Module 2: Working with Data Storage**
 - Module Introduction
 - Storage options available in Azure
 - Choose a data storage approach in Azure
 - Introducing Azure Storage
 - Introduction to Data Lake Storage
 - Create an Azure Data Lake Storage Gen2
 - Module Summary
- **Module 3: Orchestrating Data Movement with Azure Data Factory**
 - Module Introduction
 - Introducing Azure Data Factory
 - Azure Data Factory Components
 - Ingesting and Transforming data
 - Integrate Azure Data Factory with Databricks
 - Module Summary
- **Module 4: Working with Relation Data in the Cloud**
 - Module Introduction
 - Azure SQL Database
 - Azure Synapse Analytics

- Creating and Querying an Azure Synapse Analytics
- Module Summary
- **Module 5: Enabling Team Based Data Science with Azure Databricks**
 - Module Introduction
 - Introduction to Azure Databricks
 - Working with Azure Databricks
 - Reading Data using Azure Databricks
 - Performing Transformations with Azure Databricks
 - Module Summary
- **Module 6: Building Globally Distributed Database with Azure Cosmos DB**
 - Module Introduction
 - Create an Azure Cosmos DB database built to scale
 - Insert and query data in your Azure Cosmos DB database
 - Distribute your Data Globally with Azure Cosmos DB
 - Module Summary
- **Module 7: Performing Real Time Analytics with Stream Analytics**
 - Module Introductions
 - Introducing Data Streams and Event Processing
 - Data Ingestion with Event Hubs
 - Processing Data with Stream Analytics Jobs
 - Module Summary
- **Module 8: Securing Azure Data Platforms**
 - Module Introduction
 - Introduction to Security
 - Key Security Components
 - Authentication vs Authorization
 - Securing Storages in Azure
 - Module Summary
- **Module 9: Monitoring and Troubleshooting Data Storage and Processing**
 - Module Introduction
 - General Azure Monitoring Capabilities
 - Troubleshoot Common Data Platform and Processing Issues
 - Managing Disaster Recovery
 - Module Summary
- **Module 10: Azure Architecture Considerations**
 - Module Introduction
 - Azure Architecture Considerations
 - Module Summary
- **Module 11: Azure Batch Processing Reference Architectures**
 - Module Introduction
 - Azure Batch Processing Reference Architectures
 - Module Summary
- **Module 12: Azure Real Time Processing Reference Architectures**
 - Module Introduction
 - Azure Real Time Processing Reference Architectures
 - Module Summary