LEADTECNO
IT TRAINING & EMPLOYMENT SERVICES

Cloud Data Engineering & CICD

www.leadtecno.com

About
the Program

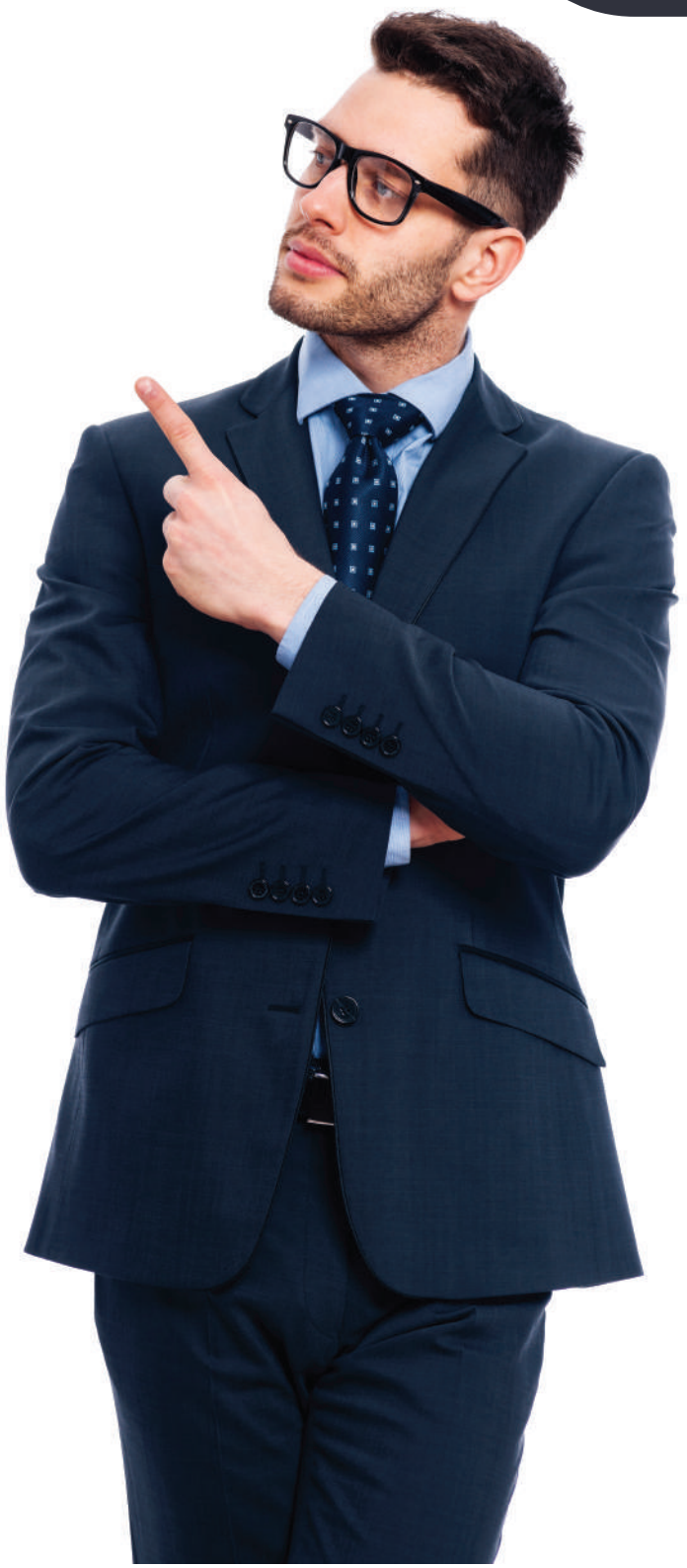
Are you passionate about building solutions to solve problems using data? Leadtecno's Data Engineering Training will provide you with the skills to design data products that make a positive impact and drive change. This training is a technical stream that contains six courses designed for data professionals that want to further their career in a fascinating discipline. As a Data engineer, transform the way organizations think, view, and create business value from data by :

- Applying the fundamentals of data architecture
- Transferring enterprise data to cloud hosted environments
- Mastering computer programming skills that are essential to create data engineering products
- Refining data that can be used to provide decision makers with actionable information
- Preparing data for presentation of business and analytical insights

The Data Engineering Training concludes with a project where you will build a minimum viable data engineering product (MVP) that you can use in your resume or on your portfolio.

POTENTIAL **JOB TITLES**

- Data Engineer
- Cloud Data Engineer
- Data Warehouse Developer
- Data Warehouse Engineer
- Analytics Engineer
- Big Data Developer
- ETL Specialist
- ETL Developer
- Software Engineer (Data)
- Data Architect
- Data Integration Developer
- Data Solution Developer



Cloud Data warehouse Fundamentals

- Big data overview and objectives
- Hadoop architecture – History and evolutions
- Data lake – How it works
- Introduction of cloud data warehouse

Azure Data bricks, Spark, Pyspark

- Introduction of apache spark and data bricks cloud
- Azure Data bricks Workspace creation, delta tables, spark SQL, cluster management.
- Spark data frames and tables
- Data frame transformations and actions
- Managed vs. External Tables
- Spark Web UI
- Data frame transformations
- Spark data types
- Spark aggregations
- Spark Joins
- Spark data frame internals
- Spark joins and optimizations
- Advanced spark
- Spark streaming

Snowflake

- Snowflake UI overview
- Snowflake Internal stage
- Snowflake External stages
- Transaction, Commit and Rollback in Snowflake
- Snowflake CDC
- Snowflake ZERO copy cloning
- Snowflake Time travel
- Fail safe property in snowflake
- Different types of tables in snowflake
- Caching in Snowflake Data Warehouse
- Snow pipe
- Snowflake tasks

Azure Data factory

- Data pipelines and Dataflow using ADF
- Incremental and Batch Pipelines
- Connectors: Azure services, databases, Nosql, files, generic protocols, services & apps, custom
- Activities: data movement, data transformation, control flow
- Parameterization
- Pipeline Monitoring Debugging and Performance Optimization
- Integration Runtimes

Data Modelling & Azure Synapse

- Azure Synapse Introduction and account creation
- Design a modern data warehouse using Azure Synapse analytics

Cloud Devops and CICD

- Introduction to git
- Introduction to CICD with azure data ops
- Git integration in data factory
- CiCD data best practices

Tools & Services Used

- Azure data Factory
- Azure Data bricks
- Azure Synapse
- Azure Functions, Logic Apps, Azure Storage, Key Vault
- Snowflake

Path to success

How much do cloud data engineers make in Canada?

$125,000

According to our salary calculator, the average annual salary for Cloud Engineers working in Toronto is $125,000.

Low:
$100,000

Median:
$ 125,000

High:
$ 150,000

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TO BOOK A CONSULTATION
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