



**Southern Alberta
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SAIT – Southern Alberta Institute of Technology

EDGE UP – Data Analytics Certificate of Participation

SAIT will offer a 17-week (~480 hour) full-time program in Data Analytics in association with Calgary Economic Development, with support from Future Skills Canada.

Graduates of the EDGE Up Data Analytics program will develop the knowledge, skills, and aptitude to apply fundamental principles of data analytics to support business decision-making processes, creating accurate and meaningful data to provide actionable insights.

The ideal candidate for the Data Analytics program has an interest in working with data and is intrigued by the power of data and how it can be analyzed to support good business decision-making.

Program Outcomes:

- Understand database concepts and how to design and implement databases to maintain data integrity.
- Develop skills to query data using SQL scripting.
- Manipulate data to develop a data repository that can then be analyzed in a business context that is relevant to decision-making.
- Use industry recognized programs and tools to extract meaning from data (Cognos, Power BI).
- Present data that communicate data analysis effectively and accurately for a business audience using visualizations (dashboards) and reports.
- Develop skills in Python programming, specific to data analysis functions.
- Introduce cloud principles for managing data in the cloud, using Microsoft Azure as the platform.

Courses:

- Introduction to Databases
- Preparing Data for Analysis
- Data Analytics Tools
- Programming for Data Analytics
- Managing Data in the Cloud
- Data Analytics Capstone Project