

Sample Assessment Brief: part unit

**NCFE Level 5 Diploma: Data Engineer
QN: 610/5972/9
Unit 03 Data pipelines and automation
(M/651/6934)**



Student name / ID number	
Unit number, title and learning outcomes (LOs)	<p>Part unit assessment</p> <p>Unit 03 Data pipelines and automation (M/651/6934)</p> <p>LO1: Explore approaches used for handling and storing data</p> <p>LO2: Explore the application of data transfer from one location to another</p>
Assignment title	Transferring and storing data
Scenario	
<p>You have been hired as a junior data engineer by a software consultancy that builds cloud-based data pipelines for businesses. Your first project is to help the team by developing secure and efficient data transfer processes and automating parts of their existing framework.</p> <p>The company has asked you to complete the following tasks to demonstrate your understanding of moving, storing, and automating data pipelines.</p>	
Tasks	
<p>Task 1: written description and documentation of ingestion framework application</p> <p>Describe the different approaches used for data handling and storage, including extract, transform, load (ETL), extract, load, transform (ELT), application programming interface (API)-based transfers, cloud and hybrid storage options.</p> <p>Evidence of your ability to apply an appropriate data ingestion framework (such as batch, streaming, or on-demand processing) to optimise a simple ingestion process, documenting your approach.</p> <p>Task 2: secure transfer and comparative analysis of migration strategies</p> <p>Evidence your ability to apply a secure and efficient data transfer technique such as secure file transfer (SFTP) to move data from one location to another.</p> <p>Critically analyse different cloud migration strategies and explain how they impact data transfer performance and continuity.</p> <p>Evaluate different tools and techniques used to transfer data between systems.</p>	
Evidence requirements	
<p>Task 1 – written description and documentation of ingestion framework application.</p> <p>Task 2 – evidence of secure transfer and comparative analysis of migration strategies.</p>	

Unit learning outcomes (LOs)

LO1: Explore approaches used for handling and storing data

LO2: Explore the application of data transfer from one location to another

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Grading criteria

Unit 03 Data pipelines and automation (M/651/6934)

Learning outcomes (LOs)	Pass	Merit	Distinction
LO1: Explore approaches used for handling and storing data	P1: describe different approaches for data handling and storage		
LO2: Explore the application of data transfer from one location to another	P2: apply appropriate ingestion frameworks to optimise a data ingestion process P3: apply appropriate transfer techniques to move data securely and efficiently during cloud migration	M1: critically analyse different cloud migration strategies and how they impact data transfer performance and continuity	D1: evaluate tools and technologies used to transfer data between systems