Unleash transformative insights with Data Engineer L5 Apprenticeship

IfATE Standard: Data Engineer ST1386 Level 5

Transform Data into Knowledge

Data Engineers are the bridge between raw data and valuable insights. Without robust systems to make data accessible and secure, its full potential remains untapped. Implementing the right architecture and efficient data flows empowers Scientists and Business Analysts with meaningful information to interpret – driving productivity, efficiency, and shaping your strategic future.

Supercharge your growth with Data Engineering:

EMPOWER DATA COMMUNITY

Graduate from cost centre to profit centre

Foster a culture of data-driven excellence and collaboration across your teams.

Poor data quality costs organisations up to $12.9 million annually, according to Gartner.

HARNESS AI AND MACHINE LEARNING

Maximise the potential of emerging technologies

97 million AI specialists are needed by 2025.

Start developing them now, with a programme designed for the future, featuring a dedicated module on AI and ML.

UNLOCK TIME AND COST SAVINGS

Stem the flow of lost revenue by capturing missed insights

Time is money - don't waste up to 1/3 of your annual revenue on inefficiencies.

Take strategic and pragmatic actions to accelerate your digital transformation.

Keep your skills ahead of the market:

77+ billion — Expected market value for Data Engineering and big data

19.5k — Vacancies for Data Engineering roles in the last 12 months

51% — Of CIO's increasing headcount for data capabilities in the next 12 months

QA.com

About the programme

Partner with QA for leading Data expertise

Industry leading expertise embedded into our practical programmes, consistent with hundreds of VILT and self-paced courses to keep your learners ever evolving.

- **Over 30 years of data experience, 50 data coaches** offering dedicated technical guidance, with **98% pass rate** in data apprenticeships

- **Enrolled over 37,000 learners** on our data programmes

- **Flexible and personalised progression pathways with Cloud Academy**, access over **40,000 hours** of online self-paced training, over **1,000 cloud and coding labs**, **100 AI labs** and courses and over **60 certification paths** for complimentary skills in Agile, Cyber, project management and more.

- **Established partnerships with all major vendors** such as AWS, Azure and GCP Databricks

- **Comprehensive data skills training** from Level 3 to 7, including AI capabilities and AI readiness

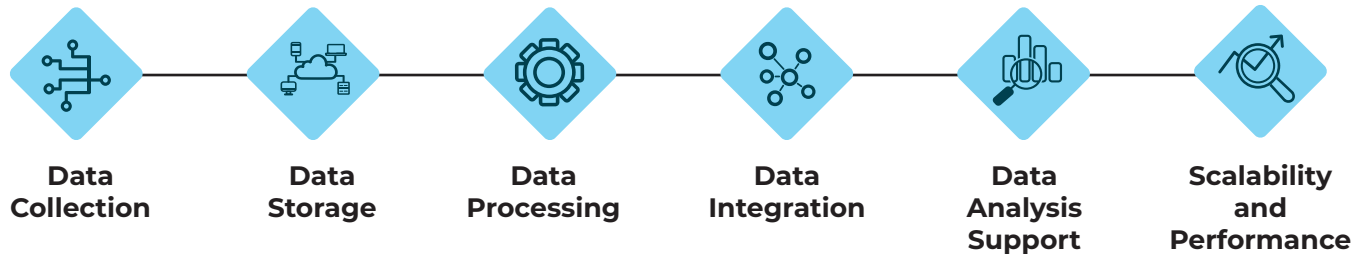### WHAT ROLES CAN THIS APPRENTICESHIP FILL?

This programme is designed specifically for Data Engineers, to support associated fields within your business across Data Science, Data Analysis, and Data Architecture.

KEY SKILLS FOR DATA ENGINEERS THAT THIS PROGRAMME COVERS

- Programming (Python)
- Databases (SQL, NoSQL, Data Warehouses)
- Data Quality, Security and Governance (tools for metadata management, security and governance best practice)
- Cloud Platforms (Azure, AWS, GCP)
- Data Pipeline Orchestration (Azure Data Factory, Kubernetes)

- Data Modelling and ETL (Dimensional Modelling Techniques) Big Data Technologies (PySpark)
- Version Control (Git)
- Containerisation (Docker)
- Machine Learning (Automation, Predictive Models)
- Problem Solving (Performance optimisation, scalability, reliability)
- Communication (technical reporting, product launch)

Learner Journey

🕐 **Typical Programme Duration: 17 months (+4 months* for End-Point-Assessment)**

Data Collection — Data Storage — Data Processing — Data Integration — Data Analysis Support — Scalability and Performance

Qualification Awarded: IfATE Standard: Data Engineer ST1386 Level 5

LEARN MORE ABOUT DATA ENGINEER L5