

# Computing, Digital and IT

## Data Analyst Level 4 Apprenticeship

### In Brief

#### Start Date / Duration

This apprenticeship programme can be started at any time. The duration of this apprenticeship is typically 24 months.

#### Entry Requirements

Individual employers will set the selection criteria, but this might include five GCSEs and/or A levels; a Level 3 Apprenticeship; other relevant qualifications and experience; or an aptitude test with a focus on functional maths.

You will need to find an employer to employ you as an apprentice. Please see our [Apprenticeship vacancies](#).

#### You will achieve

Level 4 Data Analyst Apprenticeship Standard.

### Course Overview

Launch your data-driven career with this Level 4 Data Analyst apprenticeship. Gain the skills and knowledge to collect, organise, and analyse data, providing valuable insights to improve business performance. Learn techniques like data mining, forecasting, and visualisation while mastering tools, databases, and data security. Ideal for aspiring data professionals looking to drive decision-making across industries.

For further information regarding this apprenticeship standard please visit the Institute for Apprenticeships website. [<https://www.instituteforapprenticeships.org/apprenticeship-standards/data-analyst/>]

This course is delivered as part of the South Yorkshire Institute of Technology (SYIoT). [<https://www.barnsley.ac.uk/syiot/>]

### Course Content

Interested in developing and understanding Data? If so, a Career in Data Analysis is for you.

Our Data Analyst apprenticeship equips learners with the advanced technical skills they need for their role, developing a core set of technical and academic skills.

Learners will therefore be able to undertake the following in line with organisational procedures and under supervision:

- Identify, collect and migrate data to/from a range of internal and external systems
- Manipulate and link different data sets as required
- Interpret and apply the organisations data and information security standards, policies and procedures to data management activities
- Collect and compile data from different sources
- Perform database queries across multiple tables to extract data for analysis
- Perform routine statistical analyses and ad-hoc queries
- Use a range of analytical techniques such as data mining, time series forecasting and modelling techniques to identify and predict trends and patterns in data
- Assist production of performance dashboards and reports
- Assist with data quality checking and cleansing
- Apply the tools and techniques for data analysis, data visualisation and presentation
- Assist with the production of a range of ad-hoc and standard data analysis reports
- Summarise and present the results of data analysis to a range of stakeholders making recommendations
- Work with the organisation's data architecture

Technical knowledge and understanding underpinning this apprenticeship includes understanding and applying:

- A range of data protection and legal issues
- Experiencing the data life cycle, different types of data, including open and public data, administrative data, and research data
- Understanding differences between structured and unstructured data, fundamentals of data structures, database system design, implementation and maintenance
- The importance of the domain context for data analytics
- Quality issues that can arise with data and how to avoid and/or resolve these
- Defining customer requirements for data analysis and the processes and tools used for data integration
- Steps involved in carrying out routine data analysis tasks and how to use and apply industry standard tools and methods for data analysis

Also, the aim is to make our learners professional practitioners and develop skills, attitudes and behaviours commensurate with the competency of this role. This includes applying logical and creative thinking skills, analytical and problem solving skills, developing the ability to work independently and in teams, developing and using initiative and communicating effectively in a variety of situations to a range of internal and external stakeholders.

Logo for the Institute of Technology logo [<https://www.barnsley.ac.uk/syiot/>]

## **How will I be assessed?**

On Programme Assessment will include a mixture of:

- Practical demonstrations
- Work based projects
- Written assessments
- Portfolio
- Observations
- End Point Assessment

## **What Equipment Will I Need?**

You will need to provide your own writing materials and a USB stick.

## **Where will I study?**

You will study within the workplace and attend classes at Barnsley College SciTech Centre, Falcon Street, Barnsley S70 2EY.

## **What can I do next?**

You can progress onto higher level degree and/or apprenticeship study or apply for a vast array of digital roles that include:

Data Analyst, Data Manager, Data Scientist, Data Modeller, Data Architect, Data Engineer

See what careers are available in the Computing

[<https://www.barnsley.ac.uk/app/uploads/2023/10/Computing-careers-2023-24.pdf>] and Games

[<https://www.barnsley.ac.uk/app/uploads/2023/10/Games-Design-careers-2023-24.pdf>] sectors. Use our online careers tool, Career Coach [<https://barnsley.lightcastcc.com/?radius=&region=Barnsley>], to find out what your next steps could be.

## **How much does the course cost?**

There is no cost to being an apprentice. All costs associated with your apprenticeship, including the cost of training and your salary, will be paid by your employer.

## **Financial support**

You may be eligible for assistance with expenses such as travel, books, equipment and childcare. For further information please contact the Student Services Team on 01226 216 267.

## **Extra information**

### **Contact the Apprenticeship Team**

For further information please contact the team on 01226 216 166 or email: [apprenticeships@barnsley.ac.uk](mailto:apprenticeships@barnsley.ac.uk) [<mailto:apprenticeships@barnsley.ac.uk>]

## **Want to join Barnsley Sports Academy and Honeywell Sports Village?**

Barnsley College has a range of sports opportunities for all students to take part in, gain professional training and compete nationally and internationally. We also have a state-of-the-art fitness village, Honeywell Sports Village [<https://www.barnsley.ac.uk/shops-services/honeywell-sports-village/>] where students can make use of our fitness suite, spinning studio and classes for competitive rates. You don't have to be studying sport to get involved in the Sports Academy [<https://www.barnsley.ac.uk/barnsley-sports-academy/>].

## **Additional Learning Support**

Our Additional Learning Support team can provide you with the support you need. Call 01226 216 769 for further information.

## **English and Maths**

Having good English and Maths qualifications are important for most careers and we want to give you the help you need to succeed.

If you are aged 16 – 19 and don't hold a grade C/4 or above in GCSE English and Maths, you will automatically be included in your study programme. If you want to work towards achieving a higher grade in English and Maths, we can help you do that too and we offer Level 3 Mathematical Studies (Core Maths) which can be added to your study programme.

If you're aged 19 or above and don't hold a grade C/4 or above in GCSE English and Maths we can help. We offer FREE English and Maths qualifications that can be studied on a part-time basis, subject to eligibility.

If you need any further information, please contact our Information Team by calling 01226 216 123 or emailing [info@barnsley.ac.uk](mailto:info@barnsley.ac.uk) [<mailto:info@barnsley.ac.uk>]

## **Disclaimer**

Please note we reserve the right to change details without notice. We apologise for any inconvenience this may cause.

**Last updated:** 13th December 2024

**Want to apply?**

Visit <https://www.barnsley.ac.uk/apply> to get started

Call us on **01226 216 123**