

# DATA ANALYST

Reference Number: ST0118

## Details of standard

### Role Profile

The primary role of a Data Analyst is to collect, organise and study data to provide business insight. Data analysts are typically involved with managing, cleansing, abstracting and aggregating data, and conducting a range of analytical studies on that data. They work across a variety of projects, providing technical data solutions to a range of stakeholders/customers issues. They document and report the results of data analysis activities making recommendations to improve business performance. They have a good understanding of data structures, database systems and procedures and the range of analytical tools used to undertake a range of different types of analyses

### Typical Job Roles:

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

### 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.

### Technical Competencies

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
- works with the organisation's data architecture

### Technical Knowledge and Understanding

- the range of data protection and legal issues
- the data life cycle
- the different types of data, including open and public data, administrative data, and research data
- the differences between structured and unstructured data
- the fundamentals of data structures, database system design, implementation and maintenance
- the importance of the domain context for data analytics

- the quality issues that can arise with data and how to avoid and/or resolve these
- the importance of clearly defining customer requirements for data analysis
- the processes and tools used for data integration
- the steps involved in carrying out routine data analysis tasks
- how to use and apply industry standard tools and methods for data analysis

## Underpinning Skills, Attitudes and Behaviours

- Logical and creative thinking skills
- Analytical and problem solving skills
- Ability to work independently and to take responsibility
- Can use own initiative
- A thorough and organised approach
- Ability to work with a range of internal and external people
- Ability to communicate effectively in a variety of situations
- Maintain productive, professional and secure working environment

## Qualifications

The content of both knowledge modules are summarised below and further details are available in the occupational brief available from <https://www.nsar.co.uk/digital-eqa/digital-apprenticeship-standards/>

Apprentices with a learner start date on the Data Analyst Apprenticeship that is on or after 10 March 2020 must take and submit evidence of achieving both KM1 and KM2.

Achievement of the Dell EMC qualification remains acceptable evidence for apprentices already on programme that are registered on and undertaking the Dell EMC qualification or have completed it. KM2 remains a mandatory requirement for all apprentices on this Data Analyst apprenticeship.

### Knowledge Modules

Data Analysis Tools (for Level 4 Data Analyst Apprenticeships)

Data Analysis Concepts (for Level 4 Data Analyst Apprenticeships)

### Vendor or Professional Qualifications

No other vendor or professional qualifications mapped at this point in time

None applicable at this point in time

## English and Maths

Level 2 English and Maths will need to be achieved, if not already, prior to taking the end point assessment.

## Professional Recognition

This apprenticeship is recognised for entry onto the Register of IT Technicians confirming SFIA level 3 professional competence and those completing the apprenticeship are eligible to apply for registration.

## Duration

The duration of this apprenticeship is typically 24 months.

## Level

This is a level 4 apprenticeship.

## Review Date

This standard will be reviewed in December 2017.

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### Find an apprenticeship

## Version log

VERSION	DATE UPDATED	CHANGE	PREVIOUS VERSION
1	19/03/2020	Minor amendment.	Not available
1	10/03/2020	Minor amendment to the vendor/professional qualification section	Not available
1	23/03/2016	Approved for delivery	Not available
1	01/03/2014	Initial creation	Not available