

NCFE LEVEL 3 CERTIFICATE IN DATA (603/7882/7)

Assignment Details

Course title NCFE Level 3 Certificate in Data (603/7882/7)

Unit 01 Understand how to source data (L/618/8650)

Task End of unit assessment

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Learning Objective

- 1.1 Understand where common sources of data can be found
- 1.2 Understand data formats and their importance for analysis for a specific business requirement
- 1.3 Understand the purpose and function of data architecture for a specific business requirement

Unit 1 Scenario

As the owner of a business that offers advice to short-term investors you have the important role of keeping track of stocks and shares of several companies listed on the London Stock Exchange. You specialise in tech companies.

Your company maintains a database containing details of your clients which includes their personal and financial details, their investment portfolio together with notes taken during confidential meetings with invest staff.

Investment staff members can access client details. However, only authorised staff members can create, update or delete client information.

Clients can login in securely to your company's website and access information about their portfolio of investments. Currently, you do not provide clients the ability to submit buy-and-sell instructions via the website.

When making investment recommendations you prepare a presentation on several companies that includes

- key staff profiles,
- historic data,
- past performance,

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- company ethos (e.g. environmentally friendly, supportive of employee rights)
- share price movements for the past 6 months

A potential new client is considering using your services to invest £10,000 in stocks and shares. You have selected 5 tech companies as suitable invest opportunities for this potential client.

Question 1.0: Understand where common sources of data can be found

Outline how and where can you obtain all the information required to prepare a report for the potential client. Include URLs to publicly available data services.

(You do not need to prepare the report yourself).

Question 2.0: Understand data formats

What tools, charts and diagrams could you use to explain your reasons for recommending the five tech investments?

Question 3.0: Purpose and Functions of Data Architecture

Considering your company's database system, list 3 entities for which data must be held.

Prepare a brief table of the type of information (i.e. attribute) you would store for ONE of the entities you mentioned above. For each attribute define its data format (e.g. client first name, 20 characters, string)

How would you ensure clients' information is secure from unauthorised access and maintenance?