BCS Professional Certificate in Data Analysis

Learn via: **Classroom**

Duration: **2 Day**

Overview

This course is intended to enable business analysts to define data requirements with detailed understanding of what is required and a rigorous approach.

The course will provide business analysts with knowledge and understanding of data analysis activities and techniques designed to elicit and analyse data requirements and inherent business rules and how to define the structure of the data to meet business needs.

Key areas of the course include:

- Building and understanding two types of data models - Entity Relationship Diagrams and Class Models
- Normalisation of data and why this is a useful approach
- Validation of data requirements
- Examination on the afternoon of day 2

Please do note that the course timetable is designed to include coverage of new content up to around mid-afternoon on day 2. Delegates should be prepared to spend around 1 -2 hours in the evening on homework and revision activities. This may include activities set by the instructor as appropriate.

Prerequisites

Prerequisites for Data Analysis

- It is recommended that delegates should have completed, or have knowledge to the level of, the BCS International Business Analysis Diploma or the BCS Solutions Development Diploma, before attempting this course
- This 2-day specialist course leads to the BCS Professional Certificate in Data Analysis.
- An understanding of projects would be useful but is not essential.

Prerequisites for including this course as part of the Advanced Diploma in Business Analysis:

This course is one of the 4 BCS professional certificates offered by QA which can be combined and lead to the Advanced Diploma in Business Analysis.

If you are planning to work towards obtaining the Advanced Diploma then you must already hold the BCS International Diploma in Business Analysis and provide further evidential criteria, see below for details.

How do you obtain the Advanced Diploma?

Anyone who holds the BCS International Diploma in Business Analysis can begin working towards the BCS Advanced Diploma. There are three elements to be achieved in order to be awarded the Advanced Diploma:

- Gain certifications in four subject areas across three skill domains
- Provide evidence of a minimum of five years' experience in business analysis
- Provide evidence of engaging with the BA community.

Who Should Attend

This certification is relevant for anyone wishing to gain an understanding of data analysis and techniques that maybe be applied when analysing business data. It is likely to be of benefit to business analysts, systems analysts and technical architects and solution architects. Project managers working on data-oriented projects may also find it a useful certification.

Note that if you are intending to work towards the BCS Advanced Diploma in Business Analysis then you must already have the International Diploma in Business Analysis.

What You Will Learn

Data analysis for business analysts

- The context of data and importance to the organisation
- Application of data analysis
- Data analysis and business analysis

Principles of data analysis

- The rationale for modelling data
- Techniques for data analysis : Entity relationship modelling, Class diagrams, Data normalisation

Modelling data

- Grouping data through entities and classes
- Values of data (attributes)
- Relationships/associations between data items
- Business rules governing data relationships (multiplicity etc.)

Normalisation of data

- Rules for reaching third normal form
- Drawing models using third normal form
- Identifying keys

Validating the data model

- Cross referencing
- CRUD
- Data navigation paths

Outline

- Define data analysis as a tool for a business analyst
- Explain the purpose of data analysis and modelling
- Identify the components of different data modelling techniques
- Interpret a data model
- State business rules within data analysis artefacts
- Define the process and rules used to derive third normal form
- Evaluate data sets against normalisation rules