PURPLE GRIFFON
The IT Service Management Training & Consultancy Specialists

Course Title: BCS Foundation Award - Big Data	**Course Duration**: 3.0 Days
Exam: Included	**Exam Type**: Proctored Exam
Qualification: BCS Foundation Award - Big Data	

Course Syllabus

1. What Is Big Data?

You will be able to:

1.1 Define Big Data.
1.2 Describe the difference between data and Big Data
1.3 Explain the different types of data structures and what can be included within each type.
1.4 Explain the need for a Big Data strategy

2. Working With A Big Data Framework

You will be able to:

2.1 Explain the need for a Big Data framework/network.
2.2 Identify Big Data frameworks and the benefits of using them.
2.3 Explain the need for data architecture.

3. Big Data Analytics

You will be able to:

3.1 Identify Big Data analytics.
3.2 Explain why data analytics is important.

4. Big Data And Machine Learning

You will be able to:

4.1 Describe why Machine Learning needs Big Data
4.2 Explain how Machine Learning uses Big Data
4.3 Illustrate the challenges of Big Data

Course Overview

Big Data has the potential to enable organisations to gain a much greater insight into the market in which they operate and empower them to make better business decisions.

Our three-day BCS Foundation Award - Big Data training course will enable you to understand how to manage Big Data and its use with Machine Learning.

You will explore the terminology, general principles, concepts and approaches related to the management of Big Data. This includes the relationship between data and information, as well as an understanding of Big Data frameworks (including Hadoop) and applicable solutions.

Course Learning Outcomes

BCS Membership Offer: If you do not hold a BCS certification and successfully pass the examination for this training course - you will be given one year's complementary BCS Membership. This offer is only valid for your first BCS qualification.

This award sits within the **Data** area of the AI Foundation Pathway, offering a practical understanding of big data, its associated principles and approaches.

You'll learn about:

- The Concept Of Big Data
- Working With A Big Data Framework
- Big Data Analytics
- Big Data & Machine Learning

Audience

- Digital professionals who are transitioning into a career encompassing AI and machine learning
- Those who are looking to move into analytical or research roles within AI
- Employees who want to strengthen their digital credentials and future-proof their career
- Business professionals with a background in science, engineering, knowledge engineering, finance, education or IT services
- Anyone wanting to know more about big data and how their existing data management skills might apply to an AI role

Entry-Level Requirements

There are no specific entry requirements for this award. However, some professional experience in a business or IT environment may be advantageous.

Recommended Reading

The following titles are suggested reading for anyone undertaking this award. You should be encouraged to explore other available sources.

Title: Hands-On Machine Learning with Scikit-Learn and TensorFlow: Concepts, Tools, and Techniques to Build Intelligent Systems

Author: Aurélien Géron

Publisher: O'Reilly

Publication Date: 2017

ISBN: 1491962291

What's Included

- BCS Foundation Award - Big Data Materials
- BCS Foundation Award - Big Data Examination

Exam Information

BCS Foundation Award - Big Data Examination:

- Type: 16 Multiple Choice Questions, 2 Scenario Based Questions
- Duration: 60 Minutes
- Supervised: Yes
- Open Book: No (no materials can be taken into the examination room)
- Pass Mark: 13/20 (65%)
- Delivery: Digital Format Only.

Candidate Responsibilities

- You need to complete registrations for both BCS and Questionmark.
- You will receive an email inviting you to register on the e-professional portal. Once you have completed this registration, you will be able to see the booking details that your training provider had given to BCS.
- The exam date and time may not reflect what you will book with Questionmark, but we will update this once the exam has taken place so your certificate will have the correct date.
- You will also receive an email with log in details for Questionmark. This will enable you to complete your registration and book your exam. The link for registering is here.
- If you are unable to see an assessment to schedule once you have registered, please contact BCS via customerservice@bcs.uk.
- If you're unable to select a remote proctored time and date, contact support@questionmark.com.

Create Proctor Session

- To select the exam date and time click on 'Schedule'. If you have multiple exams to schedule it is advised that you only schedule the exam you wish to take otherwise you may encounter an error 500 screen.
- If you do encounter this then please clear your browser cache before proceeding.

What's Next

Other Data awards in the AI Foundation Pathway include:

- BCS Foundation Award - Understanding Data In Your Organisation
- BCS Foundation Award - Data Visualisation

Additional Information

There is an increasing demand for individuals with the knowledge and the skills to analyse and make use of Big Data.

You will explore the role of big data in AI, the relationship between data and information, big data frameworks (including Hadoop), applicable solutions and the processes and techniques used.