Enterprise Big Data Analyst

BIG DATA TRAINING

COURSE OVERVIEW

The Enterprise Big Data Analyst course discusses advanced data analysis techniques in the context of Big Data. Working in a structured and reproducible manner, this course provides an overview of the most common algorithms for exploratory data analysis, statistical inference, predictive modeling, and machine learning techniques (classification and clustering). You will learn the underlying theory of the different algorithms and how each algorithm can be applied in practice in the R programming language.

The course is the second level of the Big Data Framework program, which is globally accredited by APMG-International. The qualification is a practitioner course for all data professionals that aims to provide an in-depth understanding of Big Data analysis techniques and models, core data analysis process steps, and best practices to retrieve value from data. The course will provide an overview of statistical and machine learning models, which are illustrated in the R programming language. This certification will not test programming skills. The emphasis is on the correct application of the theoretical models. However, participants are required to understand the output of programming languages in order to draw conclusions from the results of the analysis.

TARGET AUDIENCE

This qualification is aimed at individuals who are involved in enterprise Big Data analysis, who require a working knowledge of the principles behind Big Data analysis techniques, and who need to know the different statistical and machine learning techniques to make the right decisions:

- Data / Business / Systems / Data Management Analysts
- Business Analytics Consultants
- Data Scientists
- Data Modellers

COURSE SUMMARY

Certificate:

Enterprise Big Data Analyst

Course Format:

Classroom, Virtual or Self-Paced

Course Duration:

Classroom: 5 days
Virtual: 5 days (2x2-hours a day)

EXAM FORMAT

- Objective testing based on a case study scenario
- 4 questions of 20 marks each
- 53 marks (65%) required to pass
- 2.5 hours duration
- Open book – The Enterprise Big Data Analyst's Guide may be used in the exam

LEARNING OBJECTIVES

The key things you will learn in this course:

- Describe the fundamental characteristics of data analysis, big data, machine learning, and artificial intelligence and the differences between these concepts.
- Describe how to formulate a Big Data strategy that underpins the business drivers of Big Data and Big Data solutions in order to capture the value proposition of Big Data.
- Discuss the high-level principles and design elements of contemporary Big Data architectures and explain their core benefits.
- Explain fundamental Big Data algorithms and processing techniques in order to select the appropriate techniques to solve practical Big Data problems.
- Identify how to apply the Big Data processes that are necessary for enterprise organizations to capture value from massive quantities of data.
- Understand the importance and concept of Artificial Intelligence and its relation to Big Data methods and solutions.