



CCC-Big Data Foundation

Certificate: Course Completion Certificate

Duration: 2 Day

Course Delivery: Classroom/ Virtual

Language: English

Credits: 16

Course Description:

The Big Data foundation course provides you with an understanding of Big Data, potential data sources that can be used for solving real business problems, and an overview of data mining and the tools used in it.

This is a fundamental course with practical exercises designed to provide you with hands-on experience in using two of the most popular technologies in Big Data processing – Hadoop and MongoDB. You will get the opportunity to practice installing these two technologies through lab exercises. The exercises expose you to real-life Big Data technologies with the purpose of obtaining results from real datasets from Twitter.

After completing the course, you will be equipped not only with fundamental Big Data knowledge, but will also be introduced to a working development environment

containing Hadoop and MongoDB, installed by yourself. This practical knowledge can be used as a starting point in the organizational Big Data journey.

Course Outline:

Module 1: Course Introduction

- Course Learning Objectives
- Course Agenda
- Activities
- Exam
- Course Book
- Cloud Credential Council®(CCC)
- Certification Value

Module 2: Big Data Fundamentals

- Big Data – History, Overview, and Characteristics
- Big Data Technologies – Overview
- Big Data Success Stories
- Big Data – Privacy and Ethics
- Big Data Projects

Module 3: Big Data Sources

- Enterprise Data Sources
- Social Media Data Sources
- Public Data Sources

Module 4: Data Mining – Concepts and Tools

- Data Mining – Introduction
- Data Mining – Tools

Module 5: Big Data Technologies – Hadoop

- Hadoop Fundamentals
- Install and Configure
- MapReduce
- Data Processing with Hadoop

Module 6: Big Data Technologies – MongoDB

- MongoDB Fundamentals
- Install and Configure
- Document Databases
- Data Modelling with Document Databases

Module 7: Exam Preparation Guide

- Qualification Learning Objectives
- Learning Level of the Syllabus
- Certification
- Exam Instructions
- Tips for Exam Taking
- Mock Exam

Learning Objectives:

- Big Data fundamentals
- Big Data technologies
- Big Data governance
- Available sources of Big Data
- Data Mining, its concepts and some of the tools used for Data Mining
- Hadoop, including its concepts, how to install and configure it, the concepts behind MapReduce, and how Hadoop can be used in real life scenarios
- MongoDB, including its concepts, how to install and configure it, the concepts behind document databases and how MongoDB can be used in real life scenarios

Course Agenda:

Day 1

- Course Introduction
- Big Data Fundamentals
- Big Data Sources
- Data Mining – Concepts and Tools

Day 2

- Big Data Technologies – Hadoop
- Big Data Technologies – MongoDB
- Exam Preparation Guide

Target Audience:

This course is best suited to Information Technology professionals who possess intermediate to advanced programming, system administration, or relational database skills and are looking to move into the area of Big Data. These include:

- Software Engineers
- Application Developers
- IT Architects
- System administrators

The course can also be of benefit to other professionals, such as business analytics and research analysts, who possess strong Information Technology skills and have a deep interest in Big Data analytics and the benefits it can bring to an organization.