

# BDSCP MODULE 01

## Fundamental Big Data

Arcitura®  
CERTIFIED  
Big Data Professional

### OVERVIEW

This foundational course provides a high-level overview of essential Big Data topic areas. A basic understanding of Big Data from business and technology perspectives is provided, along with an overview of common benefits, challenges, and adoption issues.

The course content is divided into a series of modular sections, each of which is accompanied by one or more hands-on exercises.

The following primary topics are covered:

- Understanding Big Data
- Fundamental Big Data Terminology and Concepts
- Big Data Business Drivers and Technology Drivers
- Traditional Enterprise Technologies Related to Big Data
- OLTP, OLAP, ETL and Data Warehouses in relation to Big Data
- Characteristics of Data in Big Data Environments
- Dataset Types in Big Data Environments
- Structured, Unstructured and Semi-Structured Data
- Metadata and Data Veracity
- Fundamental Analysis and Analytics
- Quantitative and Qualitative Analysis
- Machine Learning Types
- Descriptive and Diagnostic Analytics
- Predictive and Prescriptive Analytics
- Business Intelligence and Big Data
- Data Visualization and Big Data
- Big Data Adoption and Planning Considerations

### TRAINING + CERTIFICATION

This course is part of a training and accreditation program through which official certification can be achieved and for which official training and certification badges can be issued.



[www.arcitura.com/bdscp/professional](http://www.arcitura.com/bdscp/professional)

### eLEARNING + PRINTED STUDY KITS

This Arcitura study kit includes the contents listed below. These course materials are available in full-color printed format, as well as in eLearning subscription format, via online access and offline file download.

- Workbook
- Self-Study Guide
- Symbol Legend Poster
- Reference Poster
- Mind Map Poster
- Flashcards
- Big Data Fundamentals eBook
- Audio Tutor Recordings (usb)



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	Certified Big Data Professional*	Certified Big Data Science Professional	Certified Big Data Scientist	Certified Big Data Consultant	Certified Big Data Engineer	Certified Big Data Architect	Certified Big Data Governance Specialist
<b>MODULE 01</b> Fundamental Big Data	●	●	●	●	●	●	●
<b>MODULE 02</b> Big Data Analysis & Technology Concepts	●	●	●	●	●	●	●
<b>MODULE 03</b> Big Data Analysis & Technology Lab		●		●			
<b>MODULE 04</b> Fundamental Big Data Analysis & Science			●	●			
<b>MODULE 05</b> Advanced Big Data Analysis & Science			●				
<b>MODULE 06</b> Big Data Analysis & Science Lab			●				
<b>MODULE 07</b> Fundamental Big Data Engineering				●	●		
<b>MODULE 08</b> Advanced Big Data Engineering					●		
<b>MODULE 09</b> Big Data Engineering Lab					●		
<b>MODULE 10</b> Fundamental Big Data Architecture						●	
<b>MODULE 11</b> Advanced Big Data Architecture						●	
<b>MODULE 12</b> Big Data Architecture Lab						●	
<b>MODULE 13</b> Fundamental Big Data Governance							●
<b>MODULE 14</b> Advanced Big Data Governance							●
<b>MODULE 15</b> Big Data Governance Lab							●

\* The Certified Big Data Professional designation is automatically issued when achieving any other BDSCP certification. It can also be achieved by receiving passing grades on Exams B90.01 + B90.02.