

BDSCP MODULE 10

Fundamental Big Data Architecture

Arcitura®
CERTIFIED
Big Data Architect

OVERVIEW

This course provides an overview of essential topic areas pertaining to Big Data solution platform architecture, covering a range of architectural models, approaches and considerations. Big Data mechanisms are explained for the creation of Big Data solutions, as well as architectural options for assembling data processing platforms.

The course further introduces the enterprise data warehouse and discusses various options for its integration with Big Data environments. Common scenarios are also presented to provide a basic understanding of how Big Data solutions are generally utilized. Finally, the use of cloud environments for the Big Data solutions is explored in the context of cloud computing delivery and deployment models.

The following primary topics are covered:

- Security Engines, Cluster Managers and Data Governance Managers
- Visualization Engines and Productivity Portals, Machine-Level Data Processing Architectural Models
- Shared-Everything and Shared-Nothing Architectures, Big Data Analytics Logical Architecture
- Data Sources, Data Acquisition, Storage, Processing and Batch Layers
- Realtime Processing, including Event Stream and Complex Event Processing
- Data Warehouse and Big Data Integration (including Series and Parallel)
- Poly Source, including Relational, Streaming and File-based Sources
- Poly Storage, including Automatic Data Replication and Data Size Reduction
- Random Access Storage, including High Volume Binary, Tabular, Linked, Hierarchical and Data Sharding
- Streaming Access, including Streaming Storage and Dataset Decomposition
- Large-Scale Batch Processing, Complex Decomposition
- Poly Sink, including Relational Sink, File-based Sink and Automated Dataset Execution
- Big Data Appliance and Data Virtualization, Analytics Engines and Application Enrichment
- Cloud Computing and Big Data Architectural Considerations, Cloud Delivery and Deployment Models for Hosting Big Data Solutions

Duration: 1 Day

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/architect

eLEARNING + PRINTED STUDY KITS

This course is available as part of a study kit that includes course materials and supplemental self-study materials. The study kit is available in full-color printed format and eLearning format. Both types of study kits include the contents listed below.

- Workbook
- Self-Study Guide
- Supplement
- Reference Posters
- Mind Map Poster
- Flashcards
- Audio Tutor Recordings



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Fundamental Big Data Architecture

	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
MODULE 01 Fundamental Big Data	●	●	●	●	●	●	●
MODULE 02 Big Data Analysis & Technology Concepts	●	●	●	●	●	●	●
MODULE 03 Big Data Analysis & Technology Lab		●		●			
MODULE 04 Fundamental Big Data Analysis & Science			●	●			
MODULE 05 Advanced Big Data Analysis & Science			●				
MODULE 06 Big Data Analysis & Science Lab			●				
MODULE 07 Fundamental Big Data Engineering				●	●		
MODULE 08 Advanced Big Data Engineering					●		
MODULE 09 Big Data Engineering Lab					●		
MODULE 10 Fundamental Big Data Architecture						●	
MODULE 11 Advanced Big Data Architecture						●	
MODULE 12 Big Data Architecture Lab						●	
MODULE 13 Fundamental Big Data Governance							●
MODULE 14 Advanced Big Data Governance							●
MODULE 15 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.

Arcitura Big Data School (www.arcitura.com/big-data-school)