

BDSCP MODULE 11

Advanced Big Data Architecture

Arcitura®
CERTIFIED
Big Data Architect

OVERVIEW

This course builds upon Module 10 by exploring advanced topics pertaining to Big Data solution platform architecture. In particular, different architectural layers that make up the Big Data solution platform are introduced and discussed, including those pertaining to storage, processing and security. Also covered are a number of design patterns and compound patterns generally employed when building enterprise Big Data solutions.

The following primary topics are covered:

- Enterprise Data Warehouses and Big Data
- Operational Data Store, Data Marts and Analytical Databases
- Big Data Solution Architectural Layers
- Big Data Architecture, Maintenance and Governance
- Big Data Security Architecture
- Series, Parallel, Appliance and Virtualization Approaches
- Big Data and Cloud-based Storage and Data Processing
- Canonical Data and Large-Scale Graph Processing
- Realtime Access Storage and Direct Data Access
- Analytical Sandbox and Confidential Data Storage
- Batch Data Processing and Dataset Denormalization
- Online Data Repository and Big Data Warehouse Architecture
- Operational Data Store and Indirect Data Access
- Integrated Access and Centralized Dataset Governance
- Event Stream Processing and Complex Event Processing
- Fan-in Ingress, Fan-out Ingress and High Velocity Realtime Processing
- Data Egress, Data Visualization and Data Utilization
- Data Wrangling, Data Processing and Data Analysis Processing
- Big Data Solution Design Patterns and Architectural Compound Patterns
- Lambda Architecture, Layers, Characteristics and Benefits

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 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
- Supplement
- Reference Posters
- Mind Map Poster
- Flashcards
- Audio Tutor Recordings (usb)



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BDSCP MODULE 11

Advanced 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.