

Certified Big Data Science Professional

OEM: Arcitura • Duration: 5 Days (40 hrs) • Code: B90.BDP

COURSE MODULES & TOPICS

Module 1: Fundamental Big Data Science & Analytics

- 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

Module 2: Big Data Analysis & Technology Concepts

- Big Data Analysis Lifecycle (from Business Case Evaluation to Data Analysis and Visualization)
- A/B Testing and Correlation
- Regression and Heat Maps
- Time Series Analysis
- Network Analysis and Spatial Data Analysis
- Classification and Clustering
- Filtering, including Collaborative Filtering and Content-based Filtering
- Sentiment Analysis and Text Analytics
- Clusters and Processing Batch and Transactional Workloads
- How Cloud Computing relates to Big Data
- Foundational Big Data Technology Mechanisms

- Big Data Storage Devices and Processing Engines
- Resource Managers, Data Transfer Engines and Query Engines
- Analytics Engines, Workflow Engines and Coordinate Engines

Module 3: Big Data Analysis & Technology Lab

- Reading Exercise 3.1: Case Study Background PLGM
- Lab Exercise 3.2: Plan the Big Data BI Environment
- Lab Exercise 3.3: Analyze Customer Loyalty Data
- Lab Exercise 3.4: Alleviate Customer Dissatisfaction
- Lab Exercise 3.5: Improve PLGM's On-Line Sales
- Reading Exercise 3.6: Case Study Background LHL
- Lab Exercise 3.7: Plan the Data Integration and Reporting Environment
- Lab Exercise 3.8: Develop a Treatment Personalization Capability
- Lab Exercise 3.9: Enhance LHL's Research Capability
- Reading Exercise 3.10: Case Study Background SWP
- Lab Exercise 3.11: Smart Meter Data Analysis
- Lab Exercise 3.12: Enhance Electricity Demand Prediction Capability
- Lab Exercise 3.13: Asset Management and Risk Identification Capability
- is authored by a dedicated courseware development team
- has a self-test, accreditation exam and professional certification
- is available via two different eLearning platforms
- undergo a common development process
- are authored to be consistent in quality, structure and style
- share a common vocabulary and symbol notation
- are authored in collaboration with subject matter experts
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