Enterprise Big Data Professional (EBDP®) Official Exam Prep Course

21 – 25 February 2027
Muscat

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Overview

Enterprise Big Data Professional EBDP® Official Exam Prep Course is a one-week technical course for enterprise architects, data engineers, and governance leads preparing to deploy structured big data capabilities. Modern organizations encounter fragmented analytics architectures, uncoordinated data engineering pipelines, and strict cross-border regulatory constraints. Participants study the Enterprise Big Data Framework across strategy, architecture, algorithms, processes, functions, and artificial intelligence to design resilient data platforms. Enterprise Big Data Professional EBDP® Official Exam Prep Course is delivered by Agile Leaders Training Center.

Who Should Attend

- Data architects designing distributed storage clusters and pipeline infrastructures
- Enterprise governance officers supervising regulatory compliance across analytical environments
- Data engineering managers standardizing ingestion protocols and processing workflows
- Business intelligence leaders coordinating analytical centers of excellence across business units
- Solutions engineers deploying scalable machine learning environments and algorithmic systems

The course assumes participants have practical experience managing relational databases or operational data pipelines, leaving out fundamental desktop productivity software and entry-level programming syntax.

Departments and Industries

The course supports cross-functional units maintaining scalable analytics infrastructure and mission-critical information systems.

- Enterprise information technology and cloud engineering units
- Digital banking and financial services organizations
- Telecommunications network operations and analytics divisions
- Healthcare informatics and medical technology departments
- Supply chain logistics and freight fleet operations

Learning Objectives

By the end of this course, participants will be able to:

- Apply the Enterprise Big Data Framework across core enterprise architecture domains
- Analyze distributed processing performance across Hadoop, Spark, and NoSQL clusters
- Build enterprise big data strategy roadmaps aligning analytical centers of excellence
- Evaluate cross-border data transfer controls in accordance with Personal Data Protection Law requirements
- Prioritize data architecture and metadata controls using National Data Management Office standards

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Course Agenda

Day 1: Big Data Strategy and Enterprise Foundations

- Enterprise Big Data Framework Strategy Domain Roadmap
- Business Case Formulation for Enterprise Analytics Capabilities
- Big Data Center of Excellence Organizational Blueprint
- DAMA-DMBOK Enterprise Data Management Benchmark Matrix
- National Data Management Office Data Governance Control Baseline

Day 2: Big Data Architecture and Distributed Processing

- NIST Big Data Reference Architecture Component Model
- Hadoop Distributed File System and MapReduce Processing Blueprint
- Apache Spark Distributed Engine and Memory Management Architecture
- NoSQL Multi-Model Database Evaluation Matrix
- Hybrid Cloud Lakehouse Storage Architecture Design

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Day 3: Big Data Algorithms, Analytics, and Artificial Intelligence

- Descriptive, Diagnostic, and Predictive Algorithm Selection Guide
- Data Science Pipeline Engineering and Model Operationalization
- Statistical Machine Learning Model Performance Metrics
- Artificial Intelligence Enterprise Capability Integration Framework
- Automated Analytics Pipeline Verification Checklist

Day 4: Big Data Processes, Governance, and Regulatory Compliance

- Big Data Lifecycle Management and Pipeline Orchestration
- National Data Management Office Data Architecture and Classification Controls
- Personal Data Protection Law Article 29 Transfer Assessment Workflow
- Regulation on Personal Data Transfer Outside the Kingdom Standard Contractual Clauses
- Data Quality, Metadata Cataloging, and Audit Trail Verification

Day 5: Applied Architecture Practice and Capstone

- Suggested Exercise: Distributed Cluster Sizing and Storage Configuration
- Suggested Exercise: Enterprise Big Data Center of Excellence Governance Plan
- Suggested Exercise: Regulatory Cross-Border Transfer Assessment Model
- Suggested Exercise: End-to-End Analytical Pipeline and Quality Audit
- Capstone Exercise: Enterprise Big Data Architecture and Compliance Blueprint

Practical Exercises

The course incorporates practical exercises reflecting complex enterprise engineering and regulatory compliance requirements.

- Suggested activity: design a distributed processing topology utilizing the NIST Big Data Reference Architecture.
- Suggested activity: evaluate cross-border data pipeline risks under Personal Data Protection Law transfer requirements.
- Suggested activity: formulate an enterprise analytics center of excellence charter and capability roadmap.
- Suggested activity: audit data classification and metadata controls against National Data Management Office specifications.

FAQs

Who suits the Enterprise Big Data Professional EBDP® Official Exam Prep Course and what does it assume?

The course suits enterprise architects, data engineers, and analytics leaders designing large-scale data platforms. It assumes working experience with database querying, enterprise architecture, or data integration workflows, omitting introductory computer hardware concepts and basic desktop administration.

How does the Enterprise Big Data Professional EBDP® Official Exam Prep Course differ from general data science training?

Enterprise Big Data Professional EBDP® Official Exam Prep Course concentrates on organizational capability, distributed architecture, and regulatory governance rather than basic coding syntax. It addresses enterprise-scale frameworks, infrastructure topologies, and institutional compliance standards.

Which reference architecture guides the Enterprise Big Data Professional EBDP® Official Exam Prep Course?

Enterprise Big Data Professional EBDP® Official Exam Prep Course references the Enterprise Big Data Framework and the NIST Big Data Reference Architecture, incorporating DAMA-DMBOK principles for enterprise information governance.

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How does the Enterprise Big Data Professional EBDP® Official Exam Prep Course address regulatory transfer compliance?

Enterprise Big Data Professional EBDP® Official Exam Prep Course examines the Personal Data Protection Law and National Data Management Office controls, evaluating cross-border pipeline restrictions and required contractual transfer safeguards.

Conclusion

Participants return to their organizations with an Enterprise Big Data Architecture and Compliance Blueprint. This operational work product establishes robust distributed storage topologies, formalized analytics governance structures, and verifiable data pipeline protocols. The asset enables cross-functional teams to deploy scalable data architectures while adhering to statutory regulatory frameworks.