Cloud Data Warehousing Training Course

Professional Development Training Course Outline

Category	Business Intelligence	**Duration**	5 Days
Base Fee	$1,500 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

Cloud Data Warehousing has become a cornerstone of modern digital transformation, enabling organizations to leverage scalable, high-performance, and cost-efficient data infrastructure. In today's data-driven economy, enterprises require agile analytics, real-time insights, and robust data governance frameworks to stay competitive. Cloud Data Warehousing Training Course is designed to equip professionals with cutting-edge expertise in cloud-native data warehousing platforms, including data modeling, ETL/ELT pipelines, and advanced analytics. Participants will gain hands-on experience with trending technologies such as data lakes, lakehouses, and distributed query engines.

With the rapid adoption of big data, artificial intelligence, and machine learning, organizations are increasingly shifting from traditional on-premise systems to cloud-based architectures. This training emphasizes industry-relevant skills such as data integration, performance optimization, security compliance, and multi-cloud strategies. Learners will explore real-world scenarios and gain practical exposure to scalable cloud ecosystems, empowering them to design, deploy, and manage enterprise-grade data warehousing solutions effectively.

Programme Curriculum

Cloud Data Warehousing Training Course

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Course Objectives

1. Understand cloud data warehousing architecture and ecosystem
2. Design scalable and high-performance data warehouse solutions
3. Implement ETL and ELT pipelines using modern tools
4. Master data modeling techniques for analytical processing
5. Integrate structured and unstructured data sources
6. Apply data governance and compliance frameworks
7. Optimize query performance and cost management
8. Implement real-time data streaming solutions
9. Utilize cloud-native analytics and BI tools
10. Ensure data security and privacy in cloud environments
11. Deploy multi-cloud and hybrid data solutions
12. Automate workflows using orchestration tools
13. Develop end-to-end data warehousing strategies

Organizational Benefits

- Improved decision-making through real-time analytics
- Enhanced scalability and flexibility of data systems
- Reduced infrastructure and operational costs
- Increased data accessibility across departments
- Strengthened data governance and compliance
- Faster deployment of analytics solutions
- Improved business intelligence capabilities
- Enhanced collaboration and data sharing
- Better risk management through predictive insights
- Competitive advantage through data-driven strategies

Target Audiences

1. Data Engineers
2. Data Analysts
3. Business Intelligence Professionals
4. Cloud Architects
5. IT Managers
6. Database Administrators
7. Software Engineers
8. Data Scientists

Course Duration: 5 days

Course Modules

Module 1: Introduction to Cloud Data Warehousing

- Overview of cloud computing and data warehousing
- Evolution from traditional to cloud-based systems
- Key components and architecture
- Benefits and challenges
- Industry trends and use cases
- Case Study: Migration from on-premise to cloud warehouse

Module 2: Data Modeling and Schema Design

- Star and snowflake schemas
- Dimensional modeling techniques
- Data normalization vs denormalization
- Handling large datasets
- Best practices for schema design
- Case Study: Designing a retail data model

Module 3: ETL and ELT Processes

- ETL vs ELT concepts
- Data extraction techniques
- Transformation strategies
- Loading data into cloud warehouses
- Automation and scheduling
- Case Study: Building an ETL pipeline for sales data

Module 4: Cloud Platforms and Tools

- Overview of major cloud providers
- Data warehousing tools comparison
- Integration with cloud services
- Deployment strategies
- Cost management techniques
- Case Study: Implementing a warehouse on cloud platform

Module 5: Data Integration and Pipelines

- Data ingestion methods
- Batch vs real-time processing
- API-based integrations
- Data pipeline orchestration
- Error handling and monitoring
- Case Study: Real-time data ingestion system

Module 6: Performance Optimization

- Query optimization techniques
- Indexing and partitioning
- Resource scaling strategies
- Monitoring and tuning performance
- Cost-performance balance

- Case Study: Optimizing slow queries

Module 7: Security and Governance

- Data security principles
- Access control and authentication
- Compliance standards
- Data encryption techniques
- Governance frameworks
- Case Study: Implementing secure data access

Module 8: Advanced Analytics and BI Integration

- Integration with BI tools
- Data visualization techniques
- Predictive analytics basics
- Machine learning integration
- Reporting and dashboards
- Case Study: Building an executive dashboard

Training Methodology

- Instructor-led interactive sessions
- Hands-on practical exercises
- Real-world case studies and scenarios
- Group discussions and collaborative learning
- Cloud-based lab environments
- Assignments and quizzes for reinforcement
- Live demonstrations of tools and platforms
- Continuous assessment and feedback

Register as a group from 3 participants for a Discount

Send us an email: info@fineskilltrainingcenter.org or call *+254769199797*

Certification

Upon successful completion of this training, participants will be issued with a globally- recognized certificate.

Tailor-Made Course

We also offer tailor-made courses based on your needs.

Key Notes

a. The participant must be conversant with English.

b. Upon completion of training the participant will be issued with an Authorized Training Certificate

c. Course duration is flexible and the contents can be modified to fit any number of days.

d. The course fee includes facilitation training materials, 2 coffee breaks, buffet lunch and A Certificate upon successful completion of Training.

e. One-year post-training support Consultation and Coaching provided after the course.

f. Payment should be done at least a week before commence of the training, to Fineskill Training Center account, as indicated in the invoice so as to enable us prepare better for you.

Upcoming Scheduled Sessions

Start Date	End Date	Location	Price
23 Nov 2026	27 Nov 2026	Online	$1,000
23 Nov 2026	27 Nov 2026	Physical	$1,500
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$4,500
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$6,000

Ready to enroll or request a customized program? Book online or contact us:

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