Talend Data Integration 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

Talend Data Integration Training Course equips professionals with cutting-edge skills in data integration, ETL development, data warehousing, and big data processing using industry-relevant tools and frameworks. This course focuses on building scalable data pipelines, optimizing data workflows, and ensuring data quality across enterprise systems. Learners gain hands-on experience in Talend Open Studio, mastering data mapping, transformation, orchestration, and integration with cloud platforms, databases, and APIs. The training emphasizes real-world applications, enabling participants to manage complex data ecosystems and drive data-driven decision-making.

In today's data-centric environment, organizations demand professionals skilled in big data integration, cloud data engineering, and real-time analytics. This course integrates trending technologies such as data lakes, data governance, machine learning integration, and cloud-native ETL solutions. By the end of the program, learners will be proficient in designing high-performance data pipelines, implementing data quality frameworks, and deploying scalable solutions using Talend, ensuring alignment with modern data architecture and digital transformation initiatives.

Programme Curriculum

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Course Objectives

1. Develop expertise in ETL development and data pipeline automation
2. Master Talend Open Studio for data integration and transformation
3. Understand data warehousing concepts and dimensional modeling
4. Implement data quality and data governance frameworks
5. Build scalable big data integration solutions
6. Integrate cloud platforms such as AWS and Azure with Talend
7. Design real-time data processing workflows
8. Optimize performance of ETL jobs and workflows
9. Work with APIs, REST services, and data connectors
10. Implement data security and compliance strategies
11. Automate data migration and synchronization processes
12. Apply DevOps practices in data integration projects
13. Analyze and troubleshoot complex data integration issues

Organizational Benefits

- Improved data accuracy and consistency across systems
- Enhanced decision-making through reliable data pipelines
- Reduced operational costs with automated ETL workflows
- Faster data processing and reporting capabilities
- Strengthened data governance and compliance
- Increased productivity of data engineering teams
- Seamless integration across cloud and on-premise systems
- Scalable solutions for big data and analytics
- Improved customer insights through integrated data
- Competitive advantage through data-driven strategies

Target Audiences

- Data Engineers
- ETL Developers
- Business Intelligence Professionals
- Data Analysts
- Database Administrators
- Software Engineers
- IT Professionals
- Cloud Data Specialists

Course Duration: 5 days

Course Modules

Module 1: Introduction to Data Integration and Talend

- Overview of data integration concepts and ETL processes
- Introduction to Talend Open Studio architecture
- Understanding data sources and targets
- Installation and setup of Talend environment
- Navigating Talend interface and components
- Case study: Implementing a basic ETL pipeline for retail data

Module 2: Talend Components and Job Design

- Understanding Talend components and palettes
- Designing jobs using graphical interface
- Data flow and control flow concepts
- Working with metadata and repositories
- Debugging and monitoring jobs
- Case study: Designing a customer data integration workflow

Module 3: Data Transformation Techniques

- Data mapping and transformation strategies
- Using built-in Talend functions
- Data cleansing and enrichment
- Handling null values and data formats
- Implementing complex transformations
- Case study: Transforming financial transaction datasets

Module 4: Data Warehousing Concepts

- Introduction to data warehouse architecture
- Star and snowflake schema design
- ETL processes for data warehousing
- Data modeling best practices
- Loading data into warehouse systems
- Case study: Building a sales data warehouse

Module 5: Big Data Integration

- Introduction to big data ecosystems
- Integrating Talend with Hadoop and Spark
- Processing large datasets efficiently
- Data ingestion from multiple sources
- Real-time vs batch processing
- Case study: Big data pipeline for social media analytics

Module 6: Cloud Data Integration

- Integrating Talend with cloud platforms
- Working with AWS, Azure, and Google Cloud
- Cloud storage and data lakes

- Data migration strategies
- Security and access management
- Case study: Migrating on-premise data to cloud

Module 7: Data Quality and Governance

- Introduction to data quality frameworks
- Profiling and cleansing data
- Implementing data governance policies
- Data validation and standardization
- Monitoring data quality metrics
- Case study: Improving data quality in healthcare systems

Module 8: Performance Optimization and Deployment

- Optimizing ETL job performance
- Parallel processing and scalability
- Job scheduling and automation
- Deployment strategies and CI/CD integration
- Monitoring and logging techniques
- Case study: Optimizing enterprise ETL workflows

Training Methodology

- Instructor-led interactive sessions
- Hands-on practical exercises and labs
- Real-world case studies and scenarios
- Group discussions and collaborative learning
- Live project implementation
- Assessments and quizzes for knowledge validation
- Access to training materials and resources
- Post-training support and guidance

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:

Register Online Now

Email: info@fineskilltrainingcenter.com | Website: www.fineskilltrainingcenter.com