Informatica PowerCenter 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

In today’s data-driven digital ecosystem, organizations rely heavily on efficient data integration, data warehousing, and real-time analytics to gain actionable insights. Informatica PowerCenter stands out as a leading enterprise-grade ETL (Extract, Transform, Load) platform that enables seamless data integration from multiple heterogeneous sources into centralized data warehouses. Informatica PowerCenter Training Course is designed to equip learners with industry-relevant skills in data integration, data transformation, workflow automation, and performance optimization, making them highly competitive in the rapidly evolving big data and cloud computing landscape.

This course delivers a comprehensive, hands-on learning experience that bridges theoretical knowledge with real-world application. Learners will gain expertise in building scalable ETL pipelines, implementing data governance frameworks, and ensuring data quality across enterprise systems. With a strong focus on practical use cases, advanced transformations, and performance tuning, this program prepares professionals to handle complex data integration challenges and align IT strategies with business intelligence goals using Informatica PowerCenter.

Programme Curriculum

Informatica PowerCenter Training Course

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Course Objectives

1. Understand core concepts of ETL processes, data integration, and data warehousing architecture
2. Master Informatica PowerCenter architecture and repository management
3. Develop reusable mappings and transformations using advanced ETL techniques
4. Implement data cleansing, data quality, and data governance best practices
5. Design scalable workflows and workflow automation processes
6. Perform performance tuning and optimization for high-volume data processing
7. Integrate multiple data sources including cloud, databases, and flat files
8. Apply error handling and debugging techniques in ETL workflows
9. Build real-time and batch data integration pipelines
10. Implement security, version control, and deployment strategies
11. Work with metadata management and lineage tracking
12. Understand integration with big data and cloud platforms
13. Develop end-to-end ETL solutions aligned with business intelligence requirements

Organizational Benefits

- Improved data accuracy and consistency across enterprise systems
- Faster decision-making through real-time data integration
- Enhanced data governance and compliance
- Increased productivity through automated workflows
- Reduced operational costs with optimized ETL processes
- Better scalability for handling large data volumes
- Improved business intelligence and reporting capabilities
- Stronger data security and integrity
- Seamless integration with existing IT infrastructure
- Competitive advantage through data-driven insights

Target Audiences

1. Data Engineers
2. ETL Developers
3. Database Administrators
4. Business Intelligence Professionals
5. Data Analysts
6. IT Professionals transitioning to data roles
7. Software Developers
8. Fresh Graduates in Computer Science or IT

Course Duration: 5 days

Course Modules

Module 1: Introduction to Data Integration and ETL Concepts

- Overview of ETL processes and data lifecycle
- Data warehousing fundamentals and architecture
- Importance of data integration in modern enterprises
- Introduction to Informatica PowerCenter platform
- Understanding data sources and targets
- Case Study: Designing a basic ETL pipeline for retail sales data

Module 2: Informatica Architecture and Components

- PowerCenter architecture overview
- Repository, Integration Service, and Client tools
- Domain configuration and administration
- Understanding PowerCenter Designer and Workflow Manager
- User roles and permissions management
- Case Study: Setting up a PowerCenter environment for an enterprise

Module 3: Source and Target Definitions

- Creating and managing source definitions
- Target table design and implementation
- Working with relational and flat file sources
- Importing metadata from databases
- Data preview and validation techniques
- Case Study: Integrating multiple source systems into a data warehouse

Module 4: Transformations in Informatica

- Overview of transformation types
- Expression, Filter, Aggregator, and Lookup transformations
- Joiner and Union transformations
- Reusable transformations and best practices
- Advanced transformation logic implementation
- Case Study: Applying transformations for customer segmentation

Module 5: Mapping Design and Development

- Creating mappings and mapping parameters
- Data flow design and optimization
- Handling slowly changing dimensions
- Mapping variables and reusable logic
- Debugging mappings
- Case Study: Building a sales data integration mapping

Module 6: Workflow and Task Management

- Creating workflows and sessions
- Task dependencies and scheduling
- Workflow monitoring and logs

- Event-based workflows
- Error handling in workflows
- Case Study: Automating ETL workflows for daily reporting

Module 7: Performance Tuning and Optimization

- Identifying performance bottlenecks
- Optimization techniques for mappings
- Partitioning and parallel processing
- Caching strategies
- Bulk data processing techniques
- Case Study: Optimizing ETL performance for large datasets

Module 8: Advanced ETL Concepts and Real-Time Integration

- Real-time data integration techniques
- Incremental data loading strategies
- Data validation and reconciliation
- Integration with cloud and big data platforms
- Best practices for enterprise ETL development
- Case Study: Implementing real-time ETL for financial transactions

Training Methodology

- Instructor-led interactive training sessions
- Hands-on practical exercises and labs
- Real-world case studies and project-based learning
- Demonstrations of enterprise-level ETL scenarios
- Continuous assessments and quizzes
- Collaborative learning and peer discussions
- Access to training materials and reference guides
- 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