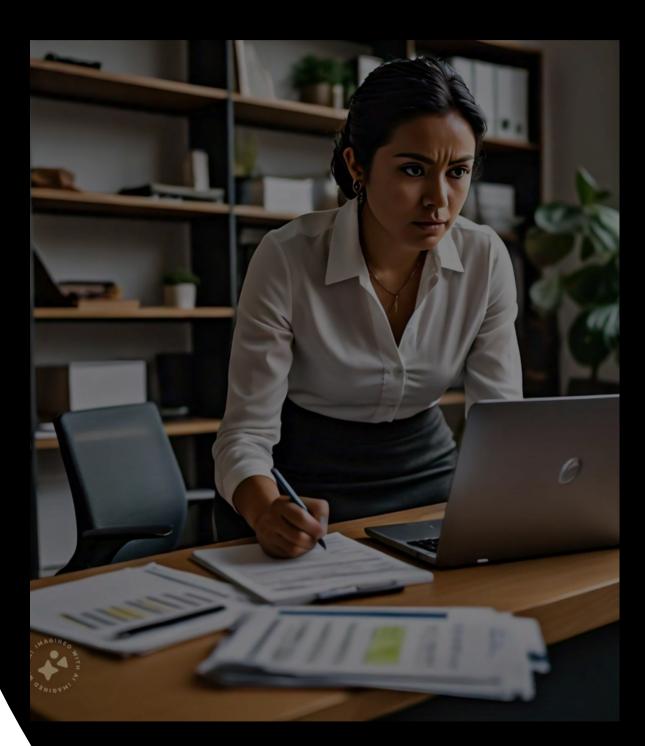# INFORMATICA POWER CENTER

OUR MISSION :

"Our mission is to empower learners worldwide through innovative technology, personalized learning experiences, and accessible educational resources. We strive to cultivate a community where every individual can achieve their full potential, regardless of their background or circumstances."

OUR VALUES :

"To pioneer the future of education by leveraging cutting-edge technology to make learning more engaging, effective, and inclusive. We envision a world where education transcends boundaries, creating opportunities for lifelong learning and fostering a society enriched by knowledge and creativity."

COURSE CURRICULUM:

Week 1: Introduction and Fundamentals Review
- Day 1-2: Overview of Informatica PowerCenter
  - Introduction to ETL and Informatica PowerCenter.
  - Installing and configuring Informatica PowerCenter.
- Day 3-4: Basic Concepts Review
  - Overview of the PowerCenter architecture.
  - Basic components: Repository Manager, Designer, Workflow Manager, and Workflow Monitor.
- Day 5: Basic Transformations
  - Hands-on with simple transformations (Filter, Router, Aggregator).

COURSE CURRICULUM:

Week 2: Advanced Transformations and Mapping Design
- Day 1-2: Advanced Transformations
    - Detailed study of advanced transformations (Joiner, Lookup, Update Strategy, etc.).
    - Hands-on exercises with advanced transformations.
- Day 3-4: Mapping Design
    - Designing complex mappings.
    - Using mapplets and reusable transformations.
- Day 5: Mapping Parameters and Variables
    - Using parameters and variables in mappings.
    - Hands-on: Creating parameterized mappings.

COURSE CURRICULUM:

Week 3: Workflow and Task Management
- Day 1-2: Workflow Design
  - Creating and managing complex workflows.
  - Using different types of tasks (Session, Command, Email, etc.).
- Day 3-4: Workflow Variables and Parameters
  - Using workflow variables and parameters.
  - Hands-on: Creating parameterized workflows.
- Day 5: Advanced Workflow Techniques
  - Using event-based and real-time workflows.
  - Hands-on: Implementing advanced workflows.

COURSE CURRICULUM:

Week 4: Performance Tuning and Optimization
- Day 1-2: Performance Tuning Basics
  - Understanding performance tuning principles.
  - Identifying performance bottlenecks.
- Day 3-4: Session and Mapping Optimization
  - Optimizing session and mapping performance.
  - Hands-on: Tuning mappings and sessions.
- Day 5: Advanced Performance Tuning
  - Using partitioning for performance improvement.
  - Hands-on: Implementing partitioned mappings and sessions.

COURSE CURRICULUM:

Week 5: Advanced Data Integration Techniques
- Day 1-2: Data Quality and Data Governance
  - Ensuring data quality in ETL processes.
  - Implementing data governance practices.
- Day 3-4: Real-time Data Integration
  - Implementing real-time data integration with PowerCenter.
  - Hands-on: Real-time ETL scenarios.
- Day 5: Big Data Integration
  - Integrating with big data sources.
  - Hands-on: Working with big data in PowerCenter.

COURSE CURRICULUM:

Week 6: Informatica PowerCenter Administration
- Day 1-2: PowerCenter Administration Basics
  - Overview of administrative tasks.
  - Managing the PowerCenter repository.
- Day 3-4: Security and User Management
  - Implementing security measures.
  - Managing users and roles.
- Day 5: Backup and Recovery
  - Implementing backup and recovery strategies.
  - Hands-on: Performing backups and restores.

COURSE CURRICULUM:

Week 7: Advanced Scripting and Automation
- Day 1-2: Using PMCMD and PMREP Commands
  - Introduction to command-line utilities (PMCMD and PMREP).
  - Automating tasks with command-line utilities.
- Day 3-4: Scripting and Automation
  - Writing scripts to automate ETL processes.
  - Hands-on: Automating ETL workflows with scripts.
- Day 5: Integration with External Tools
  - Integrating PowerCenter with other tools (e.g., scheduling tools, monitoring tools).
  - Hands-on: Implementing integrations.

COURSE CURRICULUM:

Week 8: Final Project and Presentations
- Day 1-4: Project Development
  - Students work on a comprehensive final project that integrates multiple aspects of the curriculum.
- Day 5: Project Presentation and Evaluation
  - Students present their projects.
  - Feedback and evaluation.

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