

Informatica Master Data Management (MDM)

Course Duration: 24 Hours (3 Days)

Overview

The Informatica MDM training course is a comprehensive program designed to provide learners with a deep understanding of Master Data Management (MDM) and its critical role in data management across various industries. The course is structured into ten detailed modules that cover everything from the basics of MDM to advanced concepts in architecture, design, implementation, and deployment. By participating in this training, learners will gain insights into the benefits and processes of MDM, learn about Data quality, governance, modeling, and integration. They will also explore the necessary Security and privacy measures to ensure compliance. The course emphasizes practical skills through lessons on MDM tools, best practices, case studies, and Performance tuning. Upon completion, students will be equipped with the knowledge to utilize Informatica MDM solutions effectively, ensuring that their organizations have consistent, accurate, and accountable data. This training is beneficial for data professionals looking to enhance their skills and organizations aiming to implement robust MDM strategies.

Audience Profile

Koenig Solutions' Informatica MDM course equips professionals with the skills to manage and govern enterprise data effectively.

- The course is suitable for:
- Data Architects and Modelers
- Database Administrators (DBAs)
- Data Integration Specialists
- Master Data Management Consultants
- Business Intelligence Professionals
- Data Governance Specialists
- Information Technology Managers
- Data Quality Managers
- Solution Architects
- Compliance Officers
- IT Project Managers
- Data Scientists and Analysts

- Data Stewards
- Enterprise Architects
- IT Security Professionals
- Systems Integrators
- Software Developers working on Data Management Solutions

Course Syllabus

Module 1: Introduction to Master Data Management

- Module 1 provides an overview of the Informatica MDM platform and its components. It covers the fundamentals of MDM, including data governance, data quality, and data integration. Additionally, it introduces key concepts such as master data, master data management, and master data governance. Finally, it provides a high-level overview of the Informatica MDM platform and its components.

Lessons

- Overview of Master Data Management
- Benefits of Master Data Management
- Master Data Management Architecture
- Master Data Management Processes
- Data Quality and Governance
- Data Modeling and Design
- Data Integration and Synchronization
- Data Security and Privacy
- Master Data Management Tools
- Master Data Management Best Practices

After completing this module, students will be able to:

- Understand the fundamentals of Master Data Management (MDM) and its importance in an enterprise.
- Identify the components of an MDM system and the roles and responsibilities of key stakeholders.
- Analyze the data requirements for an MDM system and develop a supporting data model.
- Design and implement an MDM system to ensure data accuracy and consistency across the enterprise.

Module 2: Data Governance and MDM

- Module 2 covers the fundamentals of data governance and its role in MDM. It provides an overview of data governance principles, the responsibilities of data stewards, and the importance of data quality. The module also introduces different types of MDM solutions, their components, and their benefits.

Lessons

- Introduction to Data Governance
- Data Governance Best Practices
- Data Governance Frameworks
- Data Quality Management
- Data Stewardship
- Data Security and Privacy
- Metadata Management
- Master Data Management (MDM) Overview
- MDM Architecture and Design
- MDM Data Modeling
- MDM Data Integration
- MDM Data Quality
- MDM Data Governance
- MDM Data Security
- MDM Data Synchronization
- MDM Data Lifecycle Management
- MDM Data Analytics
- MDM Performance Tuning
- MDM Deployment and Maintenance
- MDM Troubleshooting and Support

After completing this module, students will be able to:

- Understand the importance of data governance and MDM in an organization.
- Develop an understanding of the different components of data governance and MDM.

- Implement data governance and MDM processes and procedures.
- Utilize data governance and MDM tools to ensure data accuracy and consistency.

Module 3: Data Quality and MDM

- Module 3 focuses on data quality within MDM. It covers topics such as data profiling, cleansing, enrichment, matching, and governance. The module also provides an overview of MDM architecture, its components, and an introduction to the Informatica MDM product suite.

Lessons

- Introduction to Data Quality and MDM
- Data Quality and MDM Best Practices
- Data Quality and MDM Governance
- Data Quality and MDM Metrics
- Data Quality and MDM Tools
- Data Quality and MDM Processes
- Data Quality and MDM Strategies
- Data Quality and MDM Techniques
- Data Quality and MDM Standards
- Data Quality and MDM Automation

After completing this module, students will be able to:

- Understand the importance of data quality in enterprise data management.
- Identify and assess data quality issues and develop strategies for improvement.
- Design and implement an MDM solution using Informatica MDM.
- Utilize Informatica MDM to create and maintain a single, accurate version of enterprise data.

Module 4: MDM Architecture and Design

- Module 4 provides an in-depth understanding of MDM system architecture and design. It covers components such as data modeling, integration, quality, and governance while addressing scalability, performance, and security considerations.

Lessons

- Overview of MDM Architecture and Design
- Data Modeling for MDM
- Data Quality and Governance in MDM
- Data Integration for MDM
- Security and Access Control in MDM
- Performance Tuning for MDM
- Deployment and Maintenance of MDM
- Troubleshooting and Best Practices for MDM
- Advanced Topics in MDM Architecture and Design

After completing this module, students will be able to:

- Understand MDM architecture, components, processes, and best practices.
- Develop an MDM architecture that meets organizational needs.
- Implement a scalable, secure, and industry-compliant MDM solution.
- Monitor and maintain MDM architecture for optimal performance.

Module 5: MDM Implementation and Deployment

- Module 5 covers the implementation and deployment of MDM solutions, including architecture planning, data governance, data quality, and integration.

Lessons

- Overview of MDM Implementation and Deployment
- Planning for MDM Implementation and Deployment
- Designing the MDM Architecture
- Configuring the MDM Environment
- Integrating MDM with Other Systems
- Testing and Validating the MDM Environment
- Deploying the MDM Solution
- Managing the MDM Environment

- Troubleshooting MDM Issues
- Best Practices for MDM Implementation and Deployment

After completing this module, students will be able to:

- Understand the architecture and components of Informatica MDM.
- Configure and deploy Informatica MDM Hub.
- Implement data quality rules and processes in Informatica MDM.
- Utilize Informatica MDM Hub for enterprise-wide master data management.

Module 6: MDM Security and Compliance

Module 6 addresses the security and compliance aspects of MDM, covering authentication, authorization, encryption, and regulatory compliance requirements.

Lessons

- Overview of MDM Security and Compliance
- Understanding MDM Security and Compliance Requirements
- Implementing MDM Security and Compliance
- Managing MDM Security and Compliance
- Auditing MDM Security and Compliance
- Best Practices for MDM Security and Compliance
- Troubleshooting MDM Security and Compliance Issues
- Regulatory Compliance and MDM
- Data Privacy and MDM
- Data Governance and MDM

After completing this module, students will be able to:

- Understand security and compliance requirements for MDM systems.
- Implement security and compliance policies.
- Monitor and audit MDM systems for compliance.
- Troubleshoot security and compliance issues.

Module 7: MDM Integration and Synchronization

- Module 7 of the Informatica Master Data Management (MDM) course covers the integration and synchronization of MDM with other systems. It includes topics such as data mapping, data transformation, data synchronization, and data governance. Additionally, it explores the use of APIs and web services for MDM integration. Finally, it introduces Informatica MDM tools used to monitor and manage data synchronization.

Lessons

- Overview of MDM Integration and Synchronization
- Understanding Data Synchronization
- Configuring MDM Integration and Synchronization
- Working with Data Synchronization Rules
- Troubleshooting MDM Integration and Synchronization Issues
- Best Practices for MDM Integration and Synchronization
- Automating MDM Integration and Synchronization
- Security Considerations for MDM Integration and Synchronization
- Performance Tuning for MDM Integration and Synchronization
- Integrating MDM with Other Systems

After completing this module, students will be able to:

- Understand the fundamentals of MDM integration and synchronization.
- Develop an understanding of different types of MDM integration and synchronization.
- Design and implement MDM integration and synchronization solutions.
- Troubleshoot and optimize MDM integration and synchronization processes.

Module 8: MDM Performance Tuning and Optimization

- Module 8 of the Informatica Master Data Management (MDM) course focuses on performance tuning and optimization. It covers the fundamentals of MDM architecture, identifying performance bottlenecks, and applying best practices for tuning and optimizing MDM performance. Additionally, it provides techniques for monitoring and troubleshooting MDM performance.

Lessons

- Understanding Performance Tuning and Optimization Strategies
- Analyzing Performance Bottlenecks
- Optimizing MDM Workflows
- Optimizing the MDM Data Model
- Optimizing MDM Matching Rules
- Optimizing MDM Search Indexes
- Optimizing MDM Data Quality Rules
- Optimizing MDM Data Loads
- Optimizing MDM Data Synchronization
- Troubleshooting MDM Performance Issues

After completing this module, students will be able to:

- Understand performance tuning and optimization techniques for Informatica MDM.
- Identify and resolve performance bottlenecks in MDM.
- Apply best practices for performance tuning and optimization.
- Implement strategies to enhance MDM performance.

Module 9: MDM Analytics and Reporting

- Module 9 of the Informatica Master Data Management (MDM) course covers the fundamentals of MDM analytics and reporting. It provides an overview of various analytics and reporting tools available in MDM, along with guidance on how to create and utilize them. Additionally, it introduces the basics of data visualization to gain insights from MDM data and covers report creation and management in MDM.

Lessons

- Introduction to MDM Analytics and Reporting
- Overview of MDM Reporting Tools
- Designing MDM Reports
- Creating Dashboards and Visualizations
- Working with MDM Data Sources
- Advanced MDM Reporting Techniques

- Automating MDM Reports
- Troubleshooting MDM Reports
- Best Practices for MDM Analytics and Reporting
- Security and Governance for MDM Reports

After completing this module, students will be able to:

- Understand the fundamentals of data analytics and reporting within MDM.
- Develop knowledge of various reporting and analytics tools used in MDM.
- Utilize reporting and analytics tools to generate meaningful insights.
- Create and present reports and dashboards to stakeholders to communicate the value of MDM.

Module 10: MDM Best Practices and Case Studies

- Module 10 of the Informatica Master Data Management (MDM) course provides an overview of best practices and case studies related to MDM. It covers critical aspects such as data governance, data quality, data integration, and data security. Additionally, it explores how MDM can enhance business processes and customer experiences. This module also presents real-world case studies demonstrating the successful implementation of MDM across different industries.

Lessons

- Overview of MDM Best Practices
- Data Governance Strategies for MDM
- Data Quality Management for MDM
- Data Integration Strategies for MDM
- Security and Privacy Considerations for MDM
- MDM Architecture Design Principles
- MDM Performance Optimization Techniques
- MDM Deployment Strategies
- MDM Case Studies
- MDM Metrics and KPIs

After completing this module, students will be able to:

- Understand the best practices for implementing MDM solutions.

- Analyze and evaluate various MDM case studies.
- Develop strategies for successful MDM implementations.
- Identify and address potential challenges in MDM implementations.