

IBM InfoSphere MDM Workbench Training: Customization and Extension

OEM: IBM • Duration: 3 Days (24 hrs) • Code: V010026G

COURSE MODULES & TOPICS

Objectives

- Learn to build data additions, extensions, behavior extensions, and composite services using the InfoSphere MDM Workbench.
- Gain hands-on experience configuring Virtual MDM, interaction handlers, ASI service mappings, and deploying customizations to production.

Unit 1: Introduction to InfoSphere MDM and the Workbench

- What is Master Data Management (MDM)?
- Overview and core concepts of MDM.
- Business drivers for MDM.
- IBM MDM portfolio overview.

Unit 2: InfoSphere MDM Architecture

- Virtual MDM: Concepts, architecture, and use cases.
- Physical MDM: Concepts, architecture, and use cases.
- Hybrid MDM: Concepts, architecture, and use cases.
- Request/Response Framework in MDM.
- Core Physical MDM and Core Virtual MDM components.

Unit 3: Introduction to InfoSphere MDM Workbench

- Purpose and key features of the Workbench.
- Workbench interface and perspectives (e.g., MDM Development Perspective).
- Development environment setup and configuration (Eclipse, WebSphere, DB2/other databases).
- OSGi and its role in MDM customization deployment

Unit 4: Physical MDM Customizations using Workbench

- Physical MDM Data Additions
- Additions architecture and concepts.
- Creating an MDM Module Project.
- Creating new Physical MDM entities (Additions).

- Defining attributes for new entities.
- Understanding core property files and custom code tables.
- Exercise: Creating a new physical MDM entity.

Unit 5: MDM Physical Extensions

- Extensions architecture and concepts.
- Extending existing Physical MDM entities with new attributes.
- Generating physical extension implementation.
- Viewing MDM artifacts generated by the Workbench.
- Editing Workbench-generated SQL for code tables.
- Exercise: Extending an existing person attribute.

Unit 6: Physical MDM Behavior Extensions

- Behavior Extensions architecture and concepts.
- Adding new functionality to transactions or underlying actions.
- Creating custom Java logic for behavior extensions.
- Exercise: Implementing a behavior extension.

Unit 7: MDM Composite Services

- Understanding Composite Services (XML and Java/Business Proxy).
- Creating new Composite Services using transient objects.
- Combining existing business objects in composite services.
- Exercise: Developing a composite service

Unit 8: Virtual MDM Configurations using Workbench

Virtual Data Model

- Concepts of the Virtual Data Model.
- Creating new MDM Virtual Attribute Types.
- Configuring the Virtual MDM.
- Deploying the Virtual Configuration.
- Exercise: Creating a custom attribute type in the Virtual MDM.

Unit 9: Virtual Interactions Handlers

- Callout Handlers: Concepts and implementation.
- Event Handlers: Concepts and implementation.
- Composite View Handlers: Concepts and implementation.
- Exercise: Developing a Virtual Callout Handler.
- Exercise: Creating a Custom Composite View.

Unit 10: Advanced Topics and Deployment

Adaptive Service Interface (ASI)

- How ASI fits into the InfoSphere MDM Architecture.
- Building new Service Mappings.
- Tailoring services for specific organizational needs.

Unit 11: eSOA Toolkit

- Understanding the eSOA Toolkit.
- Generating Java and WebService clients.
- Exercise: Using the eSOA Toolkit.

Unit 12: Hybrid MDM Customizations

- Hybrid MDM assets and service flow.
- Customizing Hybrid MDM implementations
- Exercise: Performing a Hybrid MDM customization.

Unit 13: Deployment and Troubleshooting

- Deploying customizations from the Workbench to the MDM server.
- Understanding the Enterprise Bundle Archive (EBA) and Composite Bundle Archive (CBA) deployment model.
- Troubleshooting common MDM Workbench and deployment issues.
- Best practices for MDM Workbench development and deployment.