SAP MDG FUNCTIONAL TRAINING

Course Duration	:	**2 Months (40+ Hours)**
Mode of Training	:	**Instructor-Led Live Training**
Course Fee	:	**20,000 INR**

Disclaimer: Please note that though it's a Functional Training, you will get an overview of all the Technical Concepts too. So that, you would be able to effectively communicate with Technical Consultants in the Project. Also, you are required to have Sufficient Knowledge of all the areas in MDG (Irrespective of whether you are Technical / Functional).

Trainer's Portfolio:

♦ Venkat has 15+ years of experience in SAP which includes expertise in SAP MDG, SAP FPM, SAP WebDynPro ABAP & ABAP/4 and around 2.3 years of experience as an Assistant Professor.

♦ Venkat is an **SAP MDG S/4 HANA 1909 Certified Consultant** and currently working as an **MDG Architect** for one of the CMMI Level 5 companies in India.

♦ Venkat started MDG Trainings in the month of FEBRUARY 2020.

♦ Venkat has successfully completed 16 batches of MDG Online Training and trained around 700+ students.

♦ Venkat's MDG expertise includes – Multiple Product Implementations, Implementation Projects, Support & Upgrade Projects.

♦ Venkat's SAP MDG Expertise includes: 6 SAP MDG End-to-End Implementation Projects, 2 Support projects, 2 Upgrade Projects and various product developments in SAP MDG EAM, Service Master, uDQR Products, MDG-MM, MDG-BP, MDG-Finance in SAP MDG Arena of S/4 HANA 1709, 1909, 2022 & MDG 7.0, MDG 8.0, MDG 9.0, MDG 9.1 and MDG 9.2

♦ Experienced in MDG Implementations for MDG-M, MDG-BP, MDG-Finance and EAM.

Target Audience of this course:

Anyone interested in improving data quality and consistency within their organization can learn SAP Master Data Governance (MDG). Professionals in data management, IT, and business analysis roles are particularly well-suited to benefit from this training. While prior SAP experience can be helpful, it's not a strict requirement. But recommended to have basic knowledge of SAP with the help of some introductory courses if you are new to SAP.

♦ **Data Governance Managers:** Professionals responsible for setting and enforcing data standards.

♦ **Data Stewards:** Individuals who manage and maintain specific sets of master data.

♦ **Data Quality Analysts:** Those focused on improving the accuracy and reliability of data.

♦ **Master Data Managers:** Individuals overseeing the overall management of master data.

♦ **IT Managers:** Those responsible for the technical infrastructure and systems related to data management.

♦ **Data Architects:** Professionals who design and manage the structure and flow of data.

♦ **Business Analysts:** Individuals who analyze business processes and identify data-related requirements.

♦ **ERP Consultants:** Professionals who advise organizations on the implementation and use of Enterprise Resource Planning (ERP) systems, including SAP.

♦ **SAP Consultants:** Individuals with experience in SAP solutions who want to specialize in Master Data Governance.

Why SAP MDG?

Improved Data Quality: SAP MDG helps organizations ensure that their master data is accurate, consistent, and reliable, leading to better business decisions.

Centralized Data Management: It provides a central platform for managing master data across different SAP and non-SAP systems.

Streamlined Processes: SAP MDG automates and streamlines data governance processes, reducing manual effort and errors.

Enhanced Compliance: By enforcing data standards and controls, SAP MDG helps organizations comply with regulatory requirements.

Increased Efficiency: Accurate and consistent data leads to more efficient business operations.

Is prior SAP Experience Needed? While prior experience with SAP or data management can be beneficial, it's not a strict prerequisite for learning SAP MDG. Recommendation - Get the basic knowledge of SAP through any training programs which offer introductory courses for those new to SAP.

In essence, anyone who wants to improve data quality, streamline data management processes, and enhance data governance within their organization can benefit from learning SAP MDG.

Pre-requisite skills to work in Real-Time:

- **MDG Functional Consultants:** Knowledge / experience of any Functional Domains like MM, SD, FI, PM etc.,
- **MDG Technical Consultants:** Knowledge / experience of ABAP (Concepts relevant for MDG)

MDG Technical Consultant	MDG Functional Consultant	MDG Techno Functional Consultant
Core ABAP (Must have)	Any domain knowledge/exp of:	Core ABAP (Must have)
Object Oriented ABAP (Must have)	MM	Object Oriented ABAP (Must have)
Enhancements (Must have)	SD	Enhancements (Must have)
IDOCs (Nice to have)	FICO	IDOCs (Nice to have)
SOA Services (Nice to have)	PM	SOA Services (Nice to have)
		Any domain knowledge/exp of:
		MM
		SD
		FICO
		PM

Course Highlights:

⇒ Industry Expert Trainer
⇒ Real-Time Oriented Training
⇒ In-Depth explanation of concepts
⇒ Topic-Wise Assignments / Quizzes
⇒ Study Materials
⇒ Interview Questions & Mock Interviews
⇒ Resume Preparation
⇒ Google Classroom Learning Platform
⇒ Free MDG on S/4 HANA 2023 server access throughout the course

Frequently Asked Questions:

Should I have the pre-requisite skills to learn SAP MDG?

I strongly advise that you should have the pre-requisite skills mentioned to learn SAP MDG. However, if you don't have the required skills but you are familiar with SAP Environment – You can still learn SAP MDG (You must be able to learn the pre-requisite skills by the end of the MDG Course to get and sustain in the job).

Should I be able to work in the real-time project after the course completion?

I can assure you that you should be able to work in the real-time project after the course completion only if you regularly attend the classed and do the practise well. Also, you must complete the assignments on-time.

How can I practise the MDG Tasks?

You will get the Free S/4 HANA 2023 Server Access till the last day of the course. After the course, the server access will be paid one.

Which version will be used in our classes?

The complete course will be taught on S/4 HANA 2023 server.

How long I will have access to Google Classroom Learning Platform?

Your Google Classroom access is valid for Lifetime.

How can I contact you in case if I get any doubts while watching / practising the classes?

You can call / WhatsApp Trainer between 11 AM IST – 9 PM IST whenever you have any doubts.

COURSE CURRICULUM

UNIT 1: Getting Started with SAP MDG

1. SAP MDG Overview
   a. Introduction to MDG
   b. MDG Capabilities
   c. Use cases of MDG
   d. User Interfaces of MDG Solutions
2. MDG Architecture
3. MDG Storage Areas – Staging & Active Areas
4. Deployment Options
   a. Hub Option
   b. Co-Deployment Option
   c. Cloud Edition
5. MDG Architecture Principle – Flex & Reuse Modes
6. Governance Process Flow in MDG
7. Business Processes in MDG
8. Out-of-the Box Solutions delivered by SAP & SOLEX Partners
   a. MDGM – Material Master
   b. MDGBP – Business Partner
   c. MDGC – Customer Master
   d. MDGS – Supplier Master
   e. MDGF – Financial Master
   f. Enterprise Asset Management by Prometheus Group
   g. Service Master by Prometheus Group
   h. Retail & Fashion Management by Prometheus Group

UNIT 2: Baseline Configuration

1. Version Identification – ECC & S/4 HANA
2. MDG Software Components
3. Baseline Configuration Activities
4. Business Functions activation for various domains
5. Business Configuration Sets (BC Sets)
   a. BC Sets Overview
   b. BC Sets Activation
   c. Validate BC Set(s) Status
   d. BC Set(s) Activation Logs
6. Pre-Requisites to use MDG Workflows
   a. Activate Event Type Linkage
   b. Configure Workflow Tasks
   c. Workflow Customizing Configuration
7. Data Model activation & adjusting Staging Area
8. System Validation
9. Business Processes Validation
10. Standard Authorizations & Roles of various domains
11. User specific Role's administration

UNIT 3: Data Modeling

1. Introduction
2. Data Model Configuration Activities
   a. Define Business Object Type Codes
   b. Define Prefix for Internal Key Assignment
   c. Edit Data Model config walk-through
   d. Custom Flex Data Model creation
   e. Custom Reuse Data Model creation
   f. Staging Tables / Staging Area
   g. Staging Structures
3. Walk-through of Standard Data Models
4. Reuse Active Area & Access Class
5. Key Reports of Data Modeling
6. Entity Types and Attributes
   a. SU Type 1 Entity
   b. SU Type 2 Entity
   c. SU Type 3 Entity
   d. SU Type 4 Entity
7. Entity Relationship Types
   a. Leading Relationship
   b. Qualifying Relationship
   c. Referencing Relationship
   d. Foreign key Relationship

UNIT 4: Service Mapping Tool (SMT)

1. Introduction
2. Mapping Vs Mapping Step
3. Mappings assignment to Entity Types
4. SMT Mapping to Active Area
5. SMT Mapping to Staging Area
6. Mapping Steps with multiple Source Structures
7. Simple Transformations
   a. Field Mapping
   b. Conversion Classes overview
8. Overview of complex Transformations
   a. Transformation Methods
   b. Field Checks
   c. Condition Methods
9. Extend SMT Mapping
10. Check SMT Mapping
11. Custom SMT Mapping for Non-MDG Structures mapping
12. SMT Tables

UNIT 5: Data Quality and Check

1. Introduction
2. Types of Search Applications
   a. Database Search
   b. HANA Search
   c. Remote Client Key Search
   d. Enterprise Search
   e. Address Search
3. Duplicate Check Configuration
4. Match Profile Configuration
5. Define Search Views
6. Overview of Validations & Derivations (USMD_RULE_SERVICE)
   a. Single Entity Validations
   b. Cross-Entity Validations
   c. Single Entity Derivations
7. Overview of Cross-Entity Derivations (USMD_RULE_SERVICE_CROSS_ET)
8. Overview of Change Request Header Validations
9. Overview of Change Request Header Derivations
10. Validations & Derivations using BRF+

UNIT 6: User Interface (UI) Modeling

1. Introduction
2. Evolutions of User Interfaces in SAP
3. Overview of WebDynPro ABAP
4. Overview of Floor Plan Manager
5. Overview of MDG UI Framework (GenIL BOL)
6. UI Configuration Activities
   a. Manage UI Configuration
   b. Custom MDG Application (OVP) (Overview)
   c. Define Field Properties
   d. Print forms for SOP
   e. Field Properties BAdI implementation (Overview)
7. UI Extensibility
   a. Deep-Copy (Overview)
   b. Enhance
   c. Customize
   d. CBA (Context Based Adaptation) – Standard Dimensions & Custom Dimensions

UNIT 7: Process Modeling

1. Introduction
2. Define Governance Scope
3. Logical Actions & Business Activities
4. Pre-requisites to use MDG Workflows
5. BUS2250 Business Object Type
6. MDG Workflow Templates

7. Change Request (CR) Type configuration
   a. Create new CR Type
   b. Edit Statuses of CR Type
   c. Configure properties of CR Step
   d. Define Step Type & Actions
8. Rule-Based Workflows (RBWF)
   a. Purpose
   b. Decision Tables (SVDT, UADT, NUADT)
   c. RBWF for Custom/Standard CR Type
9. Other MDG Workflows
   a. Assign Processors to CR Steps
10. Overview of:
    a. Dynamic Agent Selection
    b. Parallel Workflows
    c. Parallel CRs
    d. Follow-Up CRs
    e. Email Notifications
    f. Dynamic Workflow Steps
    g. RBWF BadIs

UNIT 8: Data Replication Framework (DRF)

1. Introduction
2. Various methods to Replication Master Data
   a. Replication by IDOC
   b. Replication by SOA
   c. Replication by File
3. Choose the right replication method
4. Outbound Implementations
5. Outbound Implementation Class
6. Filter Criteria
7. Replication Model
8. Manual Replication
9. Auto Replication
10. Ad-Hoc Replication
11. Replication Logs
12. Key Mapping & Value Mapping
13. Replication Troubleshooting

UNIT 9: Data Import Framework (DIF)

1. Introduction
2. Configure File Paths (Source / Archive Paths)
3. Linking File Paths to BO Types
4. Different methods to import Master Data
5. Import using XML & CSV Files
6. Data Import Monitoring

UNIT 10: Extending MDG Standard Features (Overview)

1. Introduction
2. Custom Data Model
3. Standard Data Model Extension
4. Standard UI Extension
5. Custom MDG UI Application
6. Custom Roles to cater various Workflow Business Users
7. SMT Extension
8. Standard Feeder Class Enhancement
9. Standard Access Class Enhancement
10. Custom GenIL Handler Class for BP Model
11. Extend BAdIs for Finance Model

UNIT 11: MDG Analytics and Monitoring

1. Service Level Agreements and Reports
2. Process Analytics Overview and Details

UNIT 12: SAP MDG User Experience with Fiori

1. Introduction to SAP MDG Fiori Applications
2. Analysis of standard MDG Fiori Roles
3. Fiori custom Catalog & Custom Group creation
4. Perform Fiori Apps for Master Data Governance Process

UNIT 13: Mass Processing

1. Multi-Object Processing
2. Mass Change
3. File Upload / File Download

UNIT 14: Master Data Consolidation (MDC) Overview

1. Introduction to Master Data Consolidation
2. Process Templates
3. Best Record Calculation
4. Process the data using File

UNIT 15: Data Quality Management (DQM) Overview

1. Data Quality: Process and Rules
2. Data Quality: Evaluation, Scores and Dimensions
3. Rule Mining

UNIT 16: Project Activities

1. Types of Projects in SAP MDG
2. Roles & Responsibilities of MDG Technical & Functional Consultants in a Project
3. MDG Functional Specification Walk-Through
4. MDG System Design Document Walk-Through
5. End-to-End MDG Implementation Project Activities