



**SURYA Trainings**

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Our Online Course was created out of a strong passion, a shared vision, and a ceaseless commitment to making learning easily accessible from anywhere in the world.

Founded in 2016, our unique approach to learning is designed to provide our students with the opportunity to get an education on their own time.

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**SAP MDG  
Technical**

## SAP ABAP Basics

- Introduction to ERP Purpose of SAP MDG Solutions
- Introduction to SAP R/3
- SAP R/3 Services Current MDG Solutions
- Introduction to ABAP/4 & ABAP Work Bench Tools
- ABAP Data types

## SAP MDG Simplified Process Flow

- ABAP Programming Structures
- Steps to Write & Create SAP Program
- Internal Table & difference between database table & internal table
- Reading Data from Body to Work Area (or) Header Line
- (1. LOOP.... ENDLOOP, 2. READ)
- Selection Screen (1. Select-options, 2. Ranges, 3. Parameters)
- Other SELECT-OPTIONS keywords (1. Obligatory, 2. No Intervals, 3. No-Extension, 4. No-Display)

## Key Words

1. Append, 2. Sort, 3. Delete Adjacent Duplicates, 4. Collect 5. Modify)  
Deleting Data from Internal Table by (1. Fresh, 2. Refresh, 3. Clear, 4. Delete), Describe Keyword

## Data Moving types

- Coping data b/w work areas (1. Move, 2. Move-Corresponding) Custom Data Model Creations
- Coping data b/w internal tables (1. Loop..... End loop, 2. Append Lines)
- Control Break Statements (1. At First, 2. At Last, 3. At New, 4. At Change, At End )
- Insert keyword & Syntaxes for Internal Tables
- System Fields for Internal Table

## DML Operations on Database Tables

- insert, update, delete, modify keywords
- Types of Internal Tables

## Data Dictionary

- Database Tables
- Structure (. include & Append Structure)
- View (Database view, Projection view)
- Search Help (Elementary search help, Collective search help)
- Table Maintenance Generator (TMG)
- Text Table
- Types of Tables (Transparent, Cluster, Pooled Tables)

# SAP ABAP With MDG

- Open SQL Statements & Native SQL Statements
- Buffering (Single Record, Generic, Full Buffering)

## Business Process flow Scenarios

- MM Scenario
- SD Scenario

## ABAP Programming Concepts

- Inner joins
- For all entries
- Include Program
- Field Symbol
- ALV Reporting

## Function Modules

- Normal
- Remote Enabled
- Update

## String Operations

- shift, translate, replace, strlen, offset functionality, split, concatenate, condense

## Conditional & Looping Statements

- If.... Else and Switch
- Conditional, Unconditional
- CONTINUE, CHECK, EXIT keywords

## Mathematical Operations

- 1. Frac, 2. Ceil 3. Floor, 4. Abs, 5. Rem, 6. Mod, 7. Sign, 8. Trunc, 9. Div

## Sub Objects in ABAP Editor

- 1. Source Code, 2. Variants, 3. Attributes, 4. Documentation, 5. Text Elements

## OOPS ABAP

- Local Class & Global Class
- Section of a Class (Class Definition, Class Implementation, Class Definition)
- Constructor
- Inheritance
- Abstract Class
- Interface Functionality
- Exception Class & Event Functionality

## SAP Enhancements

- User exits
- Customer exits
- BADI
- Enhancement Frame Work
- BTE

## ALE & IDOC

- Standard IDOC
- Custom IDOC
- Extended IDOC

## BAPIS

- Standard BAPI,
- Custom BAPI
- Extended BAPI

## Debugging Techniques

- Table Level Debugging
- Modifying Data during Debugging
- Debugging Background Jobs

## SAP MDG Setup and Configurations

- MDG General Setting Configurations
- MDG Domain Specific Nodes Configurations
- MDG Business Function Activations
- MDG BC Sets Activations
- MDG Business Services Activations
- Net Viewer Business Client Settings (NWBC)

## SAP MDG Data Modeling

- Custom Data Model Creations
- Entity types and Storage types
- Entity types, Attributes and Relationships
- Access Class Creation
- Reuse Active area Configurations
- Generate Model Specific Structures
- Standard Data Model enhancements using BADI

## SAP MDG Process Modeling

- BRF+ Workflow Process Modeling

- Decision Table types and Configurations
- BRF+ Workflow BADI's

## **FPM (Floor Plan Manager)**

- Introduction of FPM
- FPM Components
- FPM Structure
- UIBB's
- Web Dynpro to FPM Integration
- Custom FPM Solutions

## **MDG UI Modeling**

- FPM Components
- FPM Structure
- UIBB's
- Web Dynpro to FPM Integration
- Custom FPM Solutions

## **MDG UI (NWBC)**

- MDG UI Structure Configurations
- Custom UI OVP Application Creation
- Custom OVP Pages Creation
- Feeder Class Creation
- Context Based Adaptation Configurations
- UIBB Configuration

## **Validations & Derivations**

- Data Validation
- Derivations

## **Data Replication & Framework**

- Check Logical systems
- Technical Business Systems Configurations
- DRF Modelling
- Create Outbound Implementations
- Assign Logical Systems
- IDOC Introduction
- Web Services Introduction
- DRF BADI Enhancements

## **Integration Techniques in SAP MDG**

- Key Mapping
- Value Mapping

- SMT Mapping ( Complex Mappings)

## **MDG API's**

- Change Request API
- External Model API
- Governance API
- Convenience API
- Context API

## **Data Import & Mass Changes**

- Mass Data Change
- Mass Data Upload
- File Upload
- File Download
- Data Import Frame work