SAP MM Fundamentals

- **Introduction to SAP MM**
  - Overview of SAP MM Module
  - SAP MM Integration with Other Modules (FI, SD, PP)
  - Organizational Structure in SAP MM
  - Key Master Data in SAP MM: Material, Vendor, Purchasing Info Records
- **Procurement Processes**
  - Purchase Requisition and Purchase Order Management
  - Request for Quotation (RFQ) and Quotation Processing
  - Purchase Order Types: Standard, Consignment, Subcontracting
  - Goods Receipt, Invoice Verification, and Invoice Posting
  - Advanced Procurement Scenarios: Third-Party, Stock Transport Orders
- **Inventory Management**
  - Goods Receipt and Issue Processes
  - Stock Transfer and Transfer Posting
  - Reservation and Physical Inventory Management
  - Batch and Serial Number Management
  - Advanced Inventory Management with HANA
- **Material Requirements Planning (MRP)**
  - Introduction to MRP in SAP MM
  - Configuring MRP Parameters and Planning Run
  - MRP Live on HANA: Real-Time MRP Processing
  - Multi-Level BOM Explosion and Planning
  - Advanced MRP Scenarios: Forecasting, Consumption-Based Planning

Advanced SAP MM Configuration

- **Purchasing Optimization**
  - Customizing Purchasing Document Types
  - Advanced Pricing and Conditions in Purchasing
  - Release Strategy for Purchase Requisitions and Orders
  - Integration with SAP Ariba for Procurement Optimization
  - Supplier Evaluation and Source List Management
- **Inventory Optimization**
  - Advanced Inventory Valuation and Account Determination
  - Configuring and Managing Special Stocks (Consignment, Subcontracting)
  - Batch Management: Classification, Search Strategies
  - Physical Inventory Process Optimization
  - Integration with SAP EWM (Extended Warehouse Management)
- **Logistics Invoice Verification**
  - Configuring Invoice Verification: Invoice Blocks, Variances
  - Handling Subsequent Debit/Credit and Down Payments
  - Automatic Account Assignment in Invoice Verification
  - Integration with SAP FI for Invoice Posting
  - Advanced Topics: Evaluated Receipt Settlement (ERS), Invoicing Plans
- **Material Master Data Management**
  - Advanced Material Master Configuration
  - Material Types, Number Ranges, and Field Selection
  - Classification and Variant Configuration in Material Master
  - Integration with SAP PLM (Product Lifecycle Management)
  - Data Governance and Quality Management for Material Master

SAP MM&HANA

SAP S/4HANA and MM Integration

- **Introduction to SAP S/4HANA**
  - Overview of SAP S/4HANA Architecture
  - Benefits of SAP HANA Database for SAP MM
  - Key Differences between SAP ECC and SAP S/4HANA MM
  - Migration Considerations for SAP MM to S/4HANA
  - S/4HANA Simplifications for MM Processes
- **MM Analytics and Reporting on HANA**
  - Real-Time Analytics in SAP MM with HANA
  - Using SAP Fiori Apps for MM Reporting
  - Custom Analytical Queries and CDS Views
  - Embedded Analytics in S/4HANA for MM
  - HANA Live for SAP MM: Predefined Content and Customization
- **Advanced Procurement Processes on HANA**
  - End-to-End Procurement Process Optimization with S/4HANA
  - Real-Time Supplier Collaboration and Procurement Analytics
  - Advanced Contract Management and Central Procurement
  - Predictive Analytics for Demand Planning and Procurement
  - Integration with SAP IBP (Integrated Business Planning)
- **Integration with SAP HANA Modules**
  - Integration of SAP MM with SAP EWM (Extended Warehouse Management)
  - Integration with SAP TM (Transportation Management)
  - Advanced Material Planning with SAP IBP on HANA
  - Integration with SAP Ariba for Supplier Management
  - SAP MM Integration with SAP GTS (Global Trade Services)

SAP MM Enhancements and Extensions

- **Custom Enhancements in SAP MM**
  - Enhancing Purchase Orders and Goods Movements using BAdIs and User Exits
  - Workflow Management in SAP MM
  - Output Determination and Smart Forms in Purchasing
  - Enhancing Inventory Management Processes
  - Custom Developments in SAP MM with HANA
- **SAP Fiori and Mobile Applications for MM**
  - Introduction to SAP Fiori for MM
  - Implementing SAP Fiori Apps for Purchase Order Management
  - Mobile Solutions for Warehouse Management
  - Customizing SAP Fiori Apps for MM
  - Advanced Fiori Launchpad Configuration
- **Data Migration and SAP MM**
  - Data Migration Strategies from SAP ECC to S/4HANA
  - Using SAP Data Services for MM Data Migration
  - LSMW and LTMC Tools for Data Transfer
  - Handling Master Data and Transactional Data Migration
  - Ensuring Data Consistency and Integrity during Migration
- **Advanced EDI and IDoc Processing**
  - Configuring EDI and IDoc Interfaces in SAP MM
  - Advanced IDoc Monitoring and Troubleshooting
  - Handling Custom IDoc Types and Extensions
  - EDI Integration with Third-Party Systems
  - Automating EDI Processing in S/4HANA

SAP MM Master Data Management

- **Advanced Vendor Master Data**
  - o Configuring Account Groups and Partner Roles
  - o Managing Vendor Master Data in a Global Environment
  - o Supplier Evaluation and Vendor Rating Systems
  - o SAP MDG (Master Data Governance) for Vendor Data
  - o Vendor Master Data Migration to S/4HANA
- **Material Master Data in MM**
  - o Advanced Material Master Configuration and Customization
  - o Material Master Views for Purchasing, MRP, and Warehouse Management
  - o Integration with SAP QM (Quality Management) for Material Inspections
  - o Managing Material Master Data in a Multi-Plant Environment
  - o Material Master Data Governance and Quality
- **Purchasing Info Records and Source Lists**
  - o Configuring and Managing Purchasing Info Records
  - o Source List Maintenance and Optimization
  - o Advanced Source Determination Techniques
  - o Integration with SAP APO for Advanced Planning
  - o Data Migration and Synchronization with S/4HANA
- **Service Master and Service Procurement**
  - o Configuring Service Master Data in SAP MM
  - o Service Procurement Processes: Service Purchase Orders, Service Entry Sheets
  - o Advanced Pricing for Services
  - o Integration with SAP PM (Plant Maintenance) for Service Management
  - o Service Procurement Analytics and Reporting

Advanced Logistics and Warehouse Management

- **Advanced Logistics Execution**
  - o Configuring Shipping and Transportation in SAP MM
  - o Integration with SAP TM (Transportation Management)
  - o Advanced Handling Unit Management (HUM)
  - o Cross-Docking and Warehouse Consolidation
  - o Automation in Logistics Execution with SAP EWM
- **Warehouse Management with SAP EWM**
  - o Overview of SAP EWM and Integration with SAP MM
  - o Configuring EWM Processes: Goods Receipt, Putaway, Picking
  - o Warehouse Layout and Optimization
  - o Integration with SAP TM for Transportation Management
  - o Real-Time Warehouse Analytics with HANA
- **Global Trade and Compliance**
  - o Configuring Import and Export Processes in SAP MM
  - o Integration with SAP GTS (Global Trade Services)
  - o Compliance Management for Global Procurement
  - o Advanced Topics: Sanctioned Party List Screening, Customs Management
  - o Global Trade Analytics and Reporting
- **Supply Chain Collaboration**
  - o Real-Time Supplier Evaluation and Risk Management
  - o Advanced Supplier Collaboration with SAP SNC (Supply Network Collaboration)
  - o Forecasting and Replenishment with SAP IBP
  - o Supply Chain Analytics and Optimization with SAP HANA

- **Global Procurement Strategies**
    - Configuring Global Procurement Scenarios: Cross-Company, Multi-National
    - Advanced Pricing and Contract Management for Global Procurement
    - Handling Currency and Exchange Rate Management in Procurement
    - Legal Requirements for Global Trade and Compliance
- **SAP MM for Industry-Specific Solutions**
    - Industry-Specific Scenarios: Manufacturing, Retail, Automotive
    - Configuring Procurement Processes for Different Industries
    - Integration of SAP MM with Industry-Specific Modules
    - SAP Best Practices for Industry-Specific Procurement Processes
    - Customizing Industry-Specific Procurement and Inventory Management
- **Capstone Project**
    - Comprehensive MM with HANA Implementation
    - Custom Enhancements and Integrations
    - Advanced Configuration and Optimization
    - Real-Time Analytics and Reporting
    - Post-Implementation Support and Troubleshooting