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**JRS ENTERPRISE AND
DEVELOPMENT SOLUTION**

The SAP Supply Chain Management (SCM) syllabus varies by training provider, but most comprehensive courses cover core concepts, functionalities, and practical applications to equip learners with skills to optimize supply chain processes using SAP SCM. Below is a consolidated syllabus based on common offerings from reputable institutes like Kodakco, The Knowledge Academy, Laqshya Institute, SevenMentor, and others, tailored to reflect industry standards and practical learning objectives.

SAP SCM Course Syllabus Overview

Module 1: Introduction to SAP SCM

- **Overview of SAP SCM:** Understanding the role of SAP SCM in ERP systems and its importance in managing supply chain operations.
- **Components of SAP Business Suite:** Introduction to key components, scenarios, and supported business processes.
- **SAP SCM Core Processes:** Overview of supply chain networking, planning, coordination, and execution.
- **Integration with Other SAP Modules:** Connectivity with SAP Product Lifecycle Management (PLM), SAP MM (Materials Management), SAP SD (Sales and Distribution), and others.
- **SAP S/4HANA Context:** Introduction to SAP S/4HANA SCM, its strategic importance, and transition from SAP R/3.

Module 2: SCM Master Data

- **Customer Master Records:** Creation and management of customer data.
- **Vendor Master Records:** Managing supplier information.
- **Purchasing Info Record:** Setting up procurement data.
- **Source of Supply:** Defining supply sources.
- **Bills of Material (BOM):** Structuring product components.
- **Routing and Work Centre:** Configuring production processes and resources.
- **Production Data Structure (PDS):** Managing production-related data in SAP SCM.
- **APO Product Master:** Configuring product data in Advanced Planning and Optimization (APO).
- **Transportation Lanes:** Setting up logistics pathways.

Module 3: Demand Planning and Forecasting

- **Demand Planning Tools:** Using historical data, market trends, and statistical algorithms for accurate forecasting.
- **Material Forecast:** Creating forecasts for materials.

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- **Customer-Specific Forecasts:** Tailoring forecasts to specific customers.
- **Planned Independent Requirements (PIR):** Managing independent demand requirements.
- **Consensus-Based Forecasting:** Collaborative forecasting techniques.
- **Promotion Planning:** Strategies for demand spikes due to promotions.
- **Univariate and Composite Forecasting:** Statistical forecasting methods.

Module 4: Supply Network Planning (SNP)

- **Supply Network Planning Overview:** Coordinating activities across multiple locations.
- **SNP Heuristic Scheduling:** Planning supply constraints and schedules.
- **Capacity Check and Leveling:** Ensuring resource availability and balancing workloads.
- **Quota Arrangements:** Managing supplier quotas.
- **Hierarchical Planning:** Structuring planning across organizational levels.
- **Integration Models:** Transferring master data for planning.

Module 5: Production Planning

- **Production Planning Overview:** Managing resources and schedules to meet production goals.
- **Material Requirement Planning (MRP):** Planning material needs.
- **Planned Order Creation:** Converting requirements into production orders.
- **Purchase Requisition Creation:** Automating procurement requests.
- **Master Recipes and Production Process Models (PPM):** Defining production processes.
- **Manufacturing Processes:** Executing production in SAP SCM.

Module 6: Order to Ship Process

- **Sales Order Creation:** Managing customer orders in SAP.
- **Demand Management:** Aligning orders with production and inventory.
- **Delivery Processing:** Handling documents and basic functions for shipping.
- **Shipping of Material:** Managing logistics and transportation.
- **Inventory Review:** Monitoring stock at inventory locations.
- **Continuity Demand Review:** Ensuring consistent demand fulfillment.

Module 7: Procurement and Supplier Collaboration

- **Procure-to-Pay Process:** Streamlining procurement from order to payment.
- **Supplier Collaboration:** Enhancing communication with suppliers via SAP SCM tools.

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- **Direct Procurement:** Managing procurement of raw materials.
- **Contract Compliance:** Automating supplier contract adherence.

Module 8: Warehouse and Transportation Management

- **Warehouse Management:** Optimizing storage processes and inventory tracking.
- **Transportation Management:** Planning and executing logistics for efficient deliveries.
- **Supply Chain Execution (SCE):** Managing logistics execution, including Extended Warehouse Management (EWM) and Transportation Management (TM).

Module 9: Supply Chain Risk Management

- **Risk Assessment and Mitigation:** Identifying and addressing supply chain risks using SAP SCM tools.
- **Monitoring and Contingency Planning:** Real-time monitoring and backup strategies.

Module 10: Advanced Topics

- **SAP Advanced Planning and Optimization (APO):** Deep dive into APO modules like Demand Planning (DP), Supply Network Planning (SNP), and Global Available-to-Promise (GATP).
- **SAP Integrated Business Planning (IBP):** Overview of cloud-based planning solutions.
- **Supply Chain Collaboration (SNC):** Using Supply Network Collaboration for stakeholder integration.
- **Event Manager:** Monitoring and managing supply chain events.
- **Analytics and Reporting:** Leveraging real-time data and advanced analytics for decision-making.
- **SAP Fiori:** Introduction to user-friendly interfaces for SAP SCM in S/4HANA.

Module 11: Practical Applications and Hands-On Learning

- **Real-Life Case Studies:** Applying SCM concepts to industry scenarios.
- **Hands-On Labs:** Configuring SAP SCM modules in simulated environments.
- **Capstone Projects:** Solving complex supply chain challenges through projects.
- **Real-Time Projects:** Implementing SCM solutions in practical settings.
- **Practical Assignments:** Developing analytical and problem-solving skills.

Module 12: Career and Certification Preparation

- **SAP SCM Certification Overview:** Understanding certifications like SAP Certified Application Associate (e.g., SAP SCM 7.0 EHP1, SAP ERP 6.0 EHP7, SAP SCM APO 7.0 EHP2).
- **Job Roles:** Preparing for roles like SAP SCM Consultant, Solution Architect, or Logistics Manager.

SAP SCM Real-Time Implementation Syllabus**Module 1: Introduction to SAP SCM Implementation**

- **Overview of SAP SCM in Real-World Projects:** Understanding the role of SAP SCM in optimizing supply chain processes across industries (e.g., manufacturing, retail, logistics).
- **SAP SCM Implementation Lifecycle:** Phases of implementation (Project Preparation, Business Blueprint, Realization, Final Preparation, Go-Live, and Support).
- **ASAP Methodology:** Applying SAP's Accelerated SAP (ASAP) methodology for SCM projects.
- **SAP Solution Manager:** Using Solution Manager for project management and documentation.
- **Business Process Mapping:** Aligning SAP SCM with organizational supply chain processes.
- **Real-Time Use Cases:** Case studies of SAP SCM implementations in industries like FMCG, automotive, or pharmaceuticals.

Module 2: System Setup and Configuration

- **SAP System Landscape:** Setting up Development, Quality, and Production environments for SCM.
- **SAP S/4HANA SCM Configuration:** Configuring SCM modules in S/4HANA, including integration with SAP ERP.
- **Master Data Setup:**
 - Configuring Customer, Vendor, and Material Master Records.
 - Setting up Bills of Material (BOM), Routing, and Work Centers.
 - Defining Transportation Lanes and Production Data Structures (PDS).
- **Integration Models:** Activating integration models for data transfer between SAP ERP and SCM modules (e.g., APO, IBP).
- **Customizing SCM Modules:** Tailoring Demand Planning (DP), Supply Network Planning (SNP), and Production Planning/Detail Scheduling (PP/DS).

Module 3: Demand Planning in Real-Time

- **Real-Time Demand Planning Setup:**
 - Configuring SAP APO Demand Planning (DP) for forecasting.
 - Setting up planning books, data views, and macros.
- **Data Integration:** Importing historical sales data and external market data for forecasting.
- **Forecast Models:** Implementing univariate, causal, and composite forecasting in real-time scenarios.

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- **Promotion Planning: Configuring promotions and events in demand planning.**
- **Collaborative Demand Planning: Enabling real-time collaboration with customers and stakeholders.**
- **Scenario Simulation: Running what-if analyses for demand scenarios (e.g., demand spikes, supply disruptions).**

Module 4: Supply Network Planning (SNP) Implementation

- **SNP Configuration:**
 - **Setting up supply chain models, locations, and transportation lanes.**
 - **Configuring SNP heuristics, optimizer, and Capable-to-Match (CTM).**
- **Real-Time Supply Planning:**
 - **Planning supply across multi-echelon networks.**
 - **Managing capacity constraints and leveling in real-time.**
- **Quota Arrangements and Sourcing: Configuring supplier quotas and source determination.**
- **Integration with Inventory: Synchronizing SNP with real-time inventory data.**
- **Case Study: Implementing SNP for a global supply chain with multiple plants and warehouses.**

Module 5: Production Planning and Detailed Scheduling (PP/DS)

- **PP/DS Configuration:**
 - **Setting up master recipes and production process models (PPM).**
 - **Configuring resources, shifts, and production schedules.**
- **Real-Time Production Planning:**
 - **Converting planned orders to production orders.**
 - **Managing material requirements planning (MRP) in real-time.**
- **Scheduling Optimization: Using PP/DS to optimize production schedules based on constraints.**
- **Integration with Shop Floor: Linking PP/DS with manufacturing execution systems (MES).**
- **Scenario-Based Planning: Handling disruptions like machine downtime or material shortages.**

Module 6: Order-to-Ship Process Implementation

- **Sales Order Processing:**
 - **Configuring sales order creation in SAP SCM.**

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- **Real-time integration with SAP SD (Sales and Distribution).**
- **Available-to-Promise (ATP): Implementing Global ATP (GATP) for real-time availability checks.**
- **Delivery and Shipping:**
 - **Configuring delivery schedules and transportation planning.**
 - **Managing logistics execution with SAP Transportation Management (TM).**
- **Real-Time Monitoring: Using SAP Event Management to track order-to-ship processes.**
- **Case Study: Implementing order-to-ship for a retail or e-commerce supply chain.**

Module 7: Warehouse and Transportation Management

- **Extended Warehouse Management (EWM):**
 - **Configuring EWM for warehouse processes (inbound, outbound, and internal).**
 - **Real-time inventory tracking and slotting optimization.**
- **Transportation Management (TM):**
 - **Setting up transportation planning, tendering, and execution.**
 - **Configuring freight units and transportation lanes.**
- **Real-Time Logistics Execution:**
 - **Managing cross-docking and wave planning.**
 - **Integrating with external logistics providers via SAP SNC (Supply Network Collaboration).**
- **Scenario: Optimizing warehouse and transportation for a multi-site distribution network.**

Module 8: Procurement and Supplier Collaboration

- **Procure-to-Pay Implementation:**
 - **Configuring purchase requisitions, orders, and invoice processing.**
 - **Automating supplier contract compliance.**
- **Supplier Collaboration:**
 - **Setting up SAP Supply Network Collaboration (SNC) for real-time supplier interaction.**
 - **Managing vendor-managed inventory (VMI).**
- **Real-Time Procurement:**
 - **Handling direct and indirect procurement processes.**

- Integrating with SAP Ariba for sourcing and procurement.

Module 9: Supply Chain Visibility and Event Management

- **SAP Event Management (EM):**
 - Configuring event tracking for supply chain processes (e.g., order delays, shipment status).
 - Setting up alerts and notifications for real-time monitoring.
- **Supply Chain Analytics:**
 - Using SAP SCM analytics for real-time performance tracking.
 - Configuring dashboards for KPIs like order fulfillment rates or inventory turnover.
- **Real-Time Risk Management:** Implementing tools to detect and mitigate supply chain disruptions.

Module 10: Integration with Other SAP Modules

- **Integration with SAP MM, SD, and PP:** Ensuring seamless data flow between SCM and other ERP modules.
- **SAP IBP Integration:** Configuring SAP Integrated Business Planning for cloud-based planning.
- **SAP Fiori Apps:** Implementing Fiori for user-friendly SCM interfaces.
- **Cross-Module Scenarios:** Handling real-time scenarios involving MM (procurement), SD (sales), and SCM (planning).

Module 11: Real-Time Project Execution

- **End-to-End Implementation Project:**
 - Defining business requirements and creating a Business Blueprint.
 - Configuring SAP SCM modules based on client needs.
 - Testing and validating configurations in a sandbox environment.
- **Data Migration:**
 - Migrating legacy data to SAP SCM using LSMW or SAP Data Services.
 - Ensuring data accuracy in real-time operations.
- **Go-Live Preparation:**
 - Conducting user acceptance testing (UAT).
 - Training end-users on SAP SCM functionalities.
 - Managing cutover activities for go-live.

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- **Post-Go-Live Support: Handling issues, performance tuning, and system optimization.**

Module 12: Advanced Real-Time Topics

- **SAP APO Implementation:**
 - Configuring Advanced Planning and Optimization (APO) modules (DP, SNP, PP/DS, GATP).
 - Real-time integration with SAP ECC or S/4HANA.
- **SAP IBP Deployment:** Implementing cloud-based planning for demand, inventory, and S&OP.
- **Custom Developments:** Using ABAP or SAP BTP for custom SCM enhancements.
- **Industry-Specific Scenarios:** Implementing SCM for industries like pharmaceuticals, automotive, or retail.
- **Digital Supply Chain:** Leveraging IoT, AI, and machine learning in SAP SCM for real-time insights.

Module 13: Practical Labs and Case Studies

- **Hands-On Labs:**
 - Configuring SCM modules in a simulated SAP environment.
 - Real-time scenarios like demand forecasting, production scheduling, or logistics planning.
- **Industry Case Studies:**
 - Implementing SCM for a global manufacturer or retailer.
 - Optimizing supply chain for just-in-time (JIT) delivery.
- **Capstone Project:**
 - End-to-end SAP SCM implementation for a hypothetical or real client.
 - Presenting solutions to stakeholders with KPIs and outcomes.

Module 14: Certification and Career Preparation

- **SAP SCM Certification Prep:**
 - Preparing for certifications like SAP Certified Application Associate – SAP SCM 7.0 EHP1 or SAP S/4HANA SCM.
 - Practice with mock exams and real-time scenarios.
- **Role-Based Training:**
 - Preparing for roles like SAP SCM Consultant, Functional Analyst, or Supply Chain Planner.

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- **Guidance on configuring SCM for specific business needs.**
- **Job Support:**
 - **Resume building and interview preparation for SCM roles.**
 - **Insights into real-time challenges faced by SCM consultants.**

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