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JRS ENTERPRISE AND DEVELOPMENT SOLUTION

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SAP EWM Real-Time Implementation Syllabus

Module 1: Introduction to SAP EWM

- **Overview of SAP EWM: Understanding the role of SAP EWM in supply chain and warehouse management.**

- **Differences between SAP WM and SAP EWM: Key advancements and functionalities.**

- **Deployment Options: Decentralized EWM vs. S/4HANA Embedded EWM.**

- **Business Scenarios: Real-time use cases in industries like Pharma, Retail, Consumer Goods, and Automotive.**

- **EWM Architecture: System landscape, integration with SAP ERP and S/4HANA.**

Module 2: Organizational and Warehouse Structures

- **Organizational Structures:**

    o **Client, Company Code, Plant, Storage Location.**

    o **Purchase Organization, Sales Organization, Distribution Channel, Division.**

- **Warehouse Structures:**

    o **Warehouse Number, Storage Type, Storage Section, Storage Bins.**

    o **Staging Area, Warehouse Door, Activity Area, Work Center.**

- **Real-Time Application: Mapping organizational units to business requirements, setting up warehouse layouts for efficient operations.**

Module 3: Master Data Management

- **Master Data Setup:**

    o **Supply Chain Unit, PED Custodian, Owner, Business Partners.**

    o **Material Master, Product Master, Packaging Materials.**

- **Handling Unit Management:**

    o **Configuration in ERP and EWM (Decentralized and Embedded).**

    o **Master data creation for handling units.**

- **Real-Time Application: Creating and managing master data for real-world warehouse scenarios, ensuring data alignment with ERP systems.**

Module 4: EWM Core Functionalities

- **Inbound Processes:**

    o **Goods Receipt, Expected Goods Receipt, Inbound Delivery.**

    o **Putaway Strategies (e.g., Fixed Bin, Open Storage, Bulk Storage).**

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- **Outbound Processes:**

    - **Wave Management, Cross-Docking, Production Integration.**

    - **Picking Strategies, Pick-Pack-Pass.**

- **Internal Warehouse Processes:**

    - **Stock Transfers, Ad-Hoc Movements, Posting Changes.**

    - **Replenishment, Slotting, and Rearrangement.**

- **Real-Time Application: Configuring inbound/outbound processes based on client requirements, handling complex warehouse movements.**

Module 5: Advanced EWM Functionalities

- **Process-Oriented Storage Control (POSC) and Layout-Oriented Storage Control (LOSC):**

    - **Multi-step putaway and picking processes.**

- **Post Processing Framework (PPF): Automating warehouse tasks and document generation.**

- **Radio Frequency Framework (RF): Configuring mobile devices for warehouse operations.**

- **Warehouse Order Creation Rules (WOCR): Defining rules for task assignments.**

- **Value-Added Services (VAS): Kitting, labeling, and assembly processes.**

- **Quality Inspection Engine (QIE): Managing quality checks within EWM.**

- **Yard Management: Managing transportation and logistics in the warehouse yard.**

- **Real-Time Application: Implementing advanced features to optimize warehouse efficiency, troubleshooting common issues like batch discrepancies.**

Module 6: Integration with SAP Systems

- **Integration with SAP ERP/ECC:**

    - **RFC Connections, Distribution Models.**

    - **Data alignment (e.g., Bill of Materials, Material Master).**

- **S/4HANA Integration:**

    - **Embedded EWM configuration.**

    - **Advanced analytics and real-time data processing with SAP HANA.**

- **Real-Time Application: Setting up integration for seamless data flow, addressing real-world integration challenges.**

Module 7: Warehouse Monitoring and Reporting

- **Warehouse Monitor: Real-time tracking of warehouse activities.**

- **Reporting Tools: Standard and custom reports for inventory, throughput, and performance.**

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- **Analytics with SAP HANA: Leveraging in-memory computing for real-time insights.**

- **Real-Time Application: Building dashboards and reports to monitor KPIs in a live warehouse environment.**

Module 8: Project Implementation Methodology

- **Project Phases:**

    o **Blueprinting: Gathering requirements, creating process maps.**

    o **Gap Analysis: Identifying gaps between business needs and EWM capabilities.**

    o **Configuration: Setting up EWM as per client requirements.**

    o **Testing: Unit testing, integration testing, and user acceptance testing (UAT).**

    o **Cutover Planning: Data migration, inventory cleanup, and go-live preparation.**

    o **Post-Go-Live Support: Hypercare and issue resolution.**

- **Real-Time Application: Developing configuration workbooks, testing with real data, and managing cutover activities.**

Module 9: Real-Time Project Work

- **Project Scenarios:**

    o **Configure SAP EWM for a specific industry (e.g., Pharma, Retail).**

    o **Implement a quality inspection process using QIE.**

    o **Optimize storage and picking using slotting and putaway strategies.**

    o **Set up cross-docking for efficient goods movement.**

- **Hands-On Activities:**

    o **Create and test inbound/outbound processes.**

    o **Simulate warehouse operations with real-time data.**

    o **Troubleshoot discrepancies between testing and production environments.**

- **Deliverables:**

    o **Configuration workbooks, test scripts, and process documentation.**

    o **End-to-end process flows for client-specific requirements.**

Module 10: Certification and Career Preparation

- **SAP EWM Certification Overview:**

    o **Exam structure (e.g., C_EWM_95, C_S4EWM_2023).**

    o **Key topics: Outbound Processes, Wave Management, Integration, Master Data.**

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- **Preparation Tips:**

  - **Practice with real-time case studies and sample questions.**

  - **Hands-on exercises in SAP ERP/EWM systems.**

- **Career Guidance:**

  - **Resume building, interview preparation, and job placement support.**

  - **Understanding roles: SAP EWM Consultant, Solution Architect, End-User.**

Module 11: Best Practices and Common Challenges

- **Best Practices:**

  - **Comprehensive testing with real data to avoid production issues.**

  - **Aligning physical warehouse layout with EWM configuration.**

  - **Selecting appropriate RF devices and printers for operations.**

- **Common Challenges:**

  - **Discrepancies between testing and production (e.g., batch management issues).**

  - **Data migration challenges and inventory cleanup.**

  - **Managing scope creep and prioritizing requirements.**

- **Real-Time Application: Strategies to mitigate risks, such as thorough testing and selecting experienced implementation partners.**