JRS ENTERPRISE AND DEVELOPMENT SOLUTION (a Group of Ecomexports)
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**SAP Plant Maintenance (PM) Real-Time Implementation Syllabus**

**Module 1: Introduction to SAP Plant Maintenance (PM)**

- **Overview of SAP PM**

    o **Role of SAP PM in Enterprise Asset Management (EAM)**

    o **Key functions: Inspection, Preventive Maintenance, and Repair**

    o **Integration with other SAP modules (MM, PP, QM, SD, FICO, HR)**

- **Business Processes in Plant Maintenance**

    o **Understanding maintenance workflows in manufacturing, oil & gas, utilities, and other industries**

    o **Centralized vs. decentralized maintenance planning**

- **SAP PM in SAP ECC and S/4HANA**

    o **Differences between ECC and S/4HANA PM**

    o **Introduction to Fiori UI and modernized interfaces**

- **Real-Time Implementation Context**

    o **Project phases: Planning, Blueprinting, Realization, Testing, Go-Live, and Support**

    o **Role of SAP PM consultants and end-users in implementation**

**Duration: 4-6 hours**
**Learning Outcome: Understand the purpose, scope, and real-world applications of SAP PM.**

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**Module 2: Master Data in SAP PM**

- **Technical Objects**

    o **Functional Locations: Creation, hierarchy, and structuring (spatial, functional, technical)**

    o **Equipment: Master record creation, categorization, and usage**

    o **Combination of functional locations and equipment**

- **Master Data Configuration**

    o **Setting up equipment categories, classes, and characteristics**

    o **Bills of Materials (BOMs): Equipment BOM, Material BOM, Functional Location BOM**

    o **Work Centers: Configuration and role in maintenance planning**

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- **Real-Time Scenarios**

    o **Mapping organizational assets to SAP PM technical objects**

    o **Managing master data for a manufacturing plant**

    o **Data migration strategies for master data**

**Duration: 6-8 hours**
**Learning Outcome: Ability to configure and manage master data for real-time maintenance processes.**

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**Module 3: Maintenance Processing**

- **Maintenance Notifications**

    o **Creating and managing notifications (e.g., malfunction, maintenance request)**

    o **Notification types and customization**

- **Maintenance Orders**

    o **Order types: Breakdown, Corrective, Preventive**

    o **Creating, planning, and releasing maintenance orders**

    o **Work order scheduling, resource allocation, and costing**

- **Real-Time Scenarios**

    o **Processing a breakdown maintenance request**

    o **Scheduling maintenance orders for critical equipment**

    o **Configuring custom order types for specific plants**

**Duration: 6-8 hours**
**Learning Outcome: Proficiency in creating and managing maintenance notifications and orders in real-time.**

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**Module 4: Preventive and Predictive Maintenance**

- **Preventive Maintenance Planning**

    o **Time-based, performance-based, and condition-based maintenance plans**

    o **Maintenance strategies: Single-cycle, multiple-counter, and strategy-based plans**

    o **Task lists: General, equipment-specific, and functional location-specific**

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- **Predictive Maintenance**

    - **Integration with SAP Asset Intelligence Network and digital twins**

    - **Using measuring points and counters for condition monitoring**

- **Real-Time Scenarios**

    - **Setting up a preventive maintenance plan for a production line**

    - **Configuring measuring points for predictive maintenance**

    - **Analyzing failure patterns using machine learning (if applicable)**

**Duration: 6-8 hours**
**Learning Outcome: Ability to configure and execute preventive and predictive maintenance strategies.**

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**Module 5: Integration with Other SAP Modules**

- **Integration Points**

    - **Materials Management (MM): Spare parts procurement, reservations, and inventory**

    - **Production Planning (PP): Equipment availability for production scheduling**

    - **Quality Management (QM): Inspection planning and defect recording**

    - **Sales and Distribution (SD): Service contracts and external maintenance**

    - **Financial Accounting and Controlling (FICO): Cost tracking and settlement**

- **Real-Time Scenarios**

    - **Triggering purchase requisitions for spare parts from a maintenance order**

    - **Integrating maintenance schedules with production planning**

    - **Cost analysis for maintenance activities**

**Duration: 4-6 hours**
**Learning Outcome: Understand and configure integration points for seamless data flow across SAP modules.**

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**Module 6: Configuration and Customization**

- **SAP PM Configuration**

    o **Configuring organizational structures (maintenance plants, planning plants)**

    o **Customizing order types, notification types, and control keys**

    o **Setting up permits and work clearance management (WCM)**

- **Advanced Customization**

    o **Configuring functional location and equipment hierarchies**

    o **Defining maintenance strategies and scheduling parameters**

    o **Custom reports and analytics setup**

- **Real-Time Scenarios**

    o **Configuring a new maintenance plant in SAP**

    o **Customizing a notification workflow for specific business needs**

    o **Setting up Work Clearance Management (WCM) for safety compliance**

**Duration: 6-8 hours**
**Learning Outcome: Hands-on skills in configuring and customizing SAP PM for specific business requirements.**

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**Module 7: Mobile and Advanced Technologies in SAP PM**

- **Mobile Plant Maintenance**

    o **Using SAP Fiori apps for mobile access to work orders and notifications**

    o **Offline capabilities for field technicians**

- **Advanced Technologies**

    o **Augmented Reality (AR) and Virtual Reality (VR) for maintenance training**

    o **Integration with IoT and digital twins for real-time monitoring**

    o **Machine learning for failure pattern analysis**

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- **Real-Time Scenarios**

    - **Implementing mobile access for technicians in a remote plant**

    - **Simulating asset behavior using digital twin integration**

**Duration: 4-6 hours**
**Learning Outcome: Familiarity with mobile and advanced technology integrations in SAP PM.**

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**Module 8: Reporting and Analytics**

- **Standard Reports**

    - **Maintenance order reports, equipment history, and cost analysis**

    - **Key Performance Indicators (KPIs): MTTR, MTBF, Equipment Availability**

- **Custom Reports**

    - **Using SAP Query and SAP BW for custom reporting**

    - **Real-time analytics in SAP S/4HANA**

- **Real-Time Scenarios**

    - **Generating a report for equipment downtime analysis**

    - **Creating a custom KPI dashboard for maintenance performance**

**Duration: 4-6 hours**
**Learning Outcome: Ability to generate and analyze maintenance reports for decision-making.**

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**Module 9: Real-Time Implementation and Project Execution**

- **Implementation Methodology**

    o **ASAP and Activate methodologies for SAP PM projects**

    o **Blueprinting: Gathering business requirements and mapping to SAP PM**

    o **Realization: Configuration, testing, and data migration**

- **Testing and Validation**

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

    o **Testing scenarios for maintenance processes**

- **Go-Live and Support**

    o **Cutover planning and data migration**

    o **Post-implementation support and issue resolution**

- **Real-Time Scenarios**

    o **Conducting a blueprint workshop for a manufacturing client**

    o **Executing UAT for a maintenance order process**

    o **Managing go-live for a multi-plant SAP PM implementation**

**Duration: 8-10 hours**
**Learning Outcome: Practical skills in executing an end-to-end SAP PM implementation project.**

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**Module 10: SAP PM Certification Preparation**

- **Certification Overview**

    o **SAP PM Certification (e.g., PLM300, PLM305, PLM310, PLM315, PLM318)**

    o **Exam structure, syllabus, and preparation tips**

- **Hands-On Practice**

    o **Working on SAP IDES for real-world scenarios**

    o **Practice with sample certification questions**

- **Real-Time Scenarios**

    o **Simulating business processes in SAP IDES**

    o **Reviewing common implementation challenges and solutions**

**Duration: 4-6 hours**
**Learning Outcome: Preparedness for SAP PM certification and practical application of knowledge.**

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**Module 11: Real-Time Projects and Case Studies**

- **Project Work**
    - **End-to-end implementation of SAP PM for a sample manufacturing plant**
    - **Configuring maintenance processes for a utility company**
    - **Integrating SAP PM with IoT for predictive maintenance**

- **Case Studies**
    - **SAP PM implementation in oil & gas, manufacturing, or chemical industries**
    - **Lessons learned from real-world SAP PM projects**

- **Deliverables**
    - **Project documentation (blueprint, configuration document, test scripts)**
    - **Presentation of project outcomes**

**Duration: 10-12 hours**
**Learning Outcome: Hands-on experience in applying SAP PM concepts to real-world projects.**