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JRS ENTERPRISE AND DEVELOPMENT SOLUTION

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SAP Project System (PS) Syllabus

1. Introduction to SAP PS

- Overview of SAP ERP and S/4HANA

- Role of SAP PS in Project and Portfolio Management

- Integration with other SAP modules (e.g., FI, CO, MM, SD, HR, PP)

- Key features and benefits of SAP PS for project management

- Types of projects: internally financed (capital investments, overhead) and externally financed (customer projects)

2. Project Structures and Master Data

- **Work Breakdown Structure (WBS)**:

    o Creating and managing WBS elements

    o Hierarchical structuring of projects

    o WBS as the foundation for planning and control

- **Network and Activities**:

    o Defining activities and their dependencies

    o Network diagrams and relationships

- Master data management:

    o Work centers, activity types, cost centers, and cost elements

    o PS texts and documents

- Project Builder and Project Planning Board overview

3. Planning Functions

- **Cost Planning**:

    o Easy cost planning, bottom-up, and top-down approaches

    o Cost element planning and budgeting

- **Resource Planning**:

    o Workforce planning and resource allocation

    o Capacity planning and scheduling

- **Material Planning**:

    o Integration with Materials Management (MM)

    o Requisitioning materials and services

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- **Revenue Planning**:
  - Sales order account assignment
  - Resource-related billing and milestone billing
- Scheduling techniques:
  - Forward and backward scheduling
  - Critical path method (CPM)

4. Budgeting

- Budget allocation and release
- Budget supplements and transfers
- Availability control and monitoring
- Integration with SAP Controlling (CO) module

5. Project Execution

- Managing project activities and tasks
- Material procurement and logistics integration
- Resource cost confirmation
- Milestone management and progress tracking
- Handling project changes and updates

6. Period-End Closing

- Overhead calculation
- Settlement of project costs
- Variance analysis and result analysis
- Closing projects and archiving data

7. Monitoring and Reporting

- Project monitoring tools:
  - Progress analysis and KPIs
  - Earned Value Management (EVM)
- Standard and custom reports:
  - Financial reports (G/L account, line item)
  - Material and resource usage reports
  - Project progress and status reports

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- Dashboards and analytics in SAP S/4HANA

- Integration with SAP Analytics Cloud and Datasphere

8. Integration with Other SAP Modules

- Finance (FI): Cost and revenue accounting

- Controlling (CO): Cost center integration and settlement

- Materials Management (MM): Procurement and inventory

- Sales and Distribution (SD): Customer project billing

- Human Resources (HR): Workforce planning

- Plant Maintenance (PM) and Production Planning (PP): Asset and production integration

9. Configuration and Customization

- Basic configuration of SAP PS in S/4HANA

- Setting up project profiles and templates

- Customizing WBS and network settings

- Integration settings with other SAP modules

- User exits and enhancements

10. Real-Time Scenarios and Case Studies

- Practical exercises on project creation and management

- Industry-specific scenarios (e.g., construction, engineering, manufacturing)

- Troubleshooting common issues and errors

- Hands-on labs for configuration and reporting

SAP Project System (PS) Real-Time Implementation Syllabus

1. Introduction to SAP PS Implementation

- Overview of SAP PS in SAP ERP and S/4HANA environments

- Role of SAP PS in managing projects (capital, customer, and overhead projects)

- Understanding the ASAP methodology (Accelerated SAP) for implementation

- Key phases of implementation: Project Preparation, Business Blueprint, Realization, Final Preparation, Go-Live, and Support

- Real-time implementation challenges and best practices

2. Project Preparation and Business Blueprint

- **Project Preparation**:

    o Defining project scope, objectives, and deliverables

    o Identifying stakeholders and forming the project team

    o Setting up the implementation environment (e.g., SAP Solution Manager)

- **Business Blueprint**:

    o Gathering business requirements for project management

    o Mapping business processes to SAP PS functionalities

    o Creating a Functional Specification Document (FSD)

    o Gap analysis and identifying customizations

- Real-time case study: Requirement gathering for a construction or engineering project

3. Master Data Configuration

- **Work Breakdown Structure (WBS)**:

    o Configuring WBS elements and hierarchies

    o Defining project profiles and WBS templates

    o Assigning organizational units (e.g., company code, controlling area)

- **Networks and Activities**:

    o Configuring network types and activity profiles

    o Setting up relationships, milestones, and dependencies

- **Master Data Setup**:

    o Configuring work centers, activity types, and cost elements

    o Integration with cost centers (CO) and material masters (MM)

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- Real-time scenario: Setting up WBS for a capital investment project

4. Planning and Budgeting Configuration

- **Cost Planning**:
    - o Configuring cost element planning and easy cost planning
    - o Setting up cost planning profiles
    - o Integration with SAP Controlling (CO) for cost allocation

- **Resource Planning**:
    - o Configuring workforce and capacity planning
    - o Setting up resource-related billing for customer projects

- **Budgeting**:
    - o Configuring budget profiles and availability control
    - o Managing budget allocation, supplements, and transfers

- **Scheduling**:
    - o Configuring scheduling parameters (forward/backward scheduling)
    - o Setting up critical path and float calculations

- Real-time scenario: Budget setup for a manufacturing project with resource constraints

5. Integration with Other SAP Modules

- **Financial Accounting (FI)**:
    - o Configuring account determination for project costs
    - o Setting up settlement rules for WBS elements

- **Controlling (CO)**:
    - o Integration with cost centers and internal orders
    - o Configuring result analysis and variance calculations

- **Materials Management (MM)**:
    - o Configuring material procurement for projects
    - o Setting up purchase requisitions and reservations

- **Sales and Distribution (SD)**:
    - o Configuring milestone billing and resource-related billing
    - o Integration with sales orders for customer projects

- **Human Resources (HR) and Plant Maintenance (PM)**:

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- o Workforce planning and maintenance project integration

- Real-time scenario: Integrating PS with MM and SD for a customer project

6. Project Execution and Monitoring

- Configuring project execution processes:

  - o Activity confirmation and progress tracking

  - o Material and service procurement workflows

- Setting up monitoring tools:

  - o Earned Value Management (EVM) configuration

  - o Progress analysis and KPI tracking

- Configuring project status management (e.g., TECO, CLSD)

- Real-time scenario: Monitoring progress for an infrastructure project

7. Period-End Closing and Settlement

- Configuring period-end processes:

  - o Overhead calculation and allocation

  - o Settlement of project costs to cost centers, assets, or G/L accounts

  - o Result analysis for revenue recognition

- Managing project closure and data archiving

- Real-time scenario: Settling costs for a completed engineering project

8. Reporting and Analytics

- Configuring standard SAP PS reports:

  - o Cost and budget reports (e.g., S_ALR_87013542)

  - o Progress and milestone reports

- Setting up custom reports using Report Painter/Report Writer

- Integration with SAP Analytics Cloud for advanced dashboards

- Real-time scenario: Creating a project cost report for stakeholders

9. Customization and Enhancements

- Configuring user-defined fields in WBS and networks

- Using user exits and BAdIs for custom requirements

- Developing custom programs for specific business needs

- Integration with external tools (e.g., MS Project via SAP PS interfaces)

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- Real-time scenario: Customizing WBS fields for a client-specific requirement

10. Testing and Validation

- Unit testing and integration testing for PS configurations

- Creating test scripts for business scenarios

- Validating integration points with FI, CO, MM, and SD

- User Acceptance Testing (UAT) process

- Real-time scenario: Conducting UAT for a customer project implementation

11. Go-Live and Support

- Preparing for go-live:

    o Data migration strategies for project master data

    o Cutover planning and execution

- Post-go-live support:

    o Handling issues and tickets in production

    o Training end-users and creating user manuals

- Hypercare phase and knowledge transfer

- Real-time scenario: Go-live checklist for a manufacturing project

12. Industry-Specific Implementation Scenarios

- **Construction and Engineering**:

    o Managing large-scale infrastructure projects

    o Handling milestones and progress billing

- **Manufacturing**:

    o Capital investment projects for plant expansion

    o Integration with production planning (PP)

- **Professional Services**:

    o Customer projects with resource-related billing

    o Time tracking and cost allocation

- Real-time case studies: Implementing PS for a construction company or IT service provider

13. Tools and Technologies for Implementation

- Using SAP Solution Manager for project documentation and testing

- SAP Activate methodology for S/4HANA implementations

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- Overview of SAP Fiori apps for PS (e.g., My Projects, Project Cost Overview)

- Integration with SAP Datasphere for analytics

- Real-time scenario: Using Fiori apps for project monitoring