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**JRS ENTERPRISE AND
DEVELOPMENT SOLUTION**

REAL TIME IMPLEMENTATION.

Course Overview

This syllabus provides a comprehensive guide to SAP Environment, Health, and Safety (EHS) Management, including its key modules and implementation process. It covers theoretical concepts, practical applications, and real-world implementation strategies to ensure compliance, risk management, and operational sustainability.

Syllabus Content

1. Introduction to SAP EHS

- **Overview of SAP EHS:** Purpose, scope, and integration with SAP S/4HANA and ERP systems.
- **Key Objectives:** Compliance with environmental, health, and safety regulations, risk reduction, and sustainability.
- **Modules Overview:** Product Safety, Hazardous Substance Management, Dangerous Goods Management, Industrial Hygiene and Safety, Occupational Health, Waste Management, Incident Management, and Basic Data and Reporting.
- **Benefits:** Centralized data management, regulatory compliance, and operational efficiency.

2. Core SAP EHS Modules

2.1 Product Safety

- **Concepts:** Managing product compliance, safety data sheets (SDS), and labeling.
- **Functions:** Specification management, phrase management, report generation.
- **Practical Application:** Creating and managing safety data sheets for chemicals.
- **Implementation Focus:** Configuring templates for regulatory compliance (e.g., REACH, CLP).

2.2 Hazardous Substance Management

- **Concepts:** Safe handling, tracking, and documentation of hazardous substances.
- **Functions:** Substance database, compliance checks, and reporting.
- **Practical Application:** Managing chemical inventories and ensuring regulatory adherence.
- **Implementation Focus:** Integration with external hazardous substance databases.

2.3 Dangerous Goods Management

- **Concepts:** Safe storage, transportation, and delivery of dangerous goods.
- **Functions:** Dangerous goods classification, packaging, and documentation.
- **Practical Application:** Generating transport documents and ensuring compliance with international regulations (e.g., ADR, IATA).

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- **Implementation Focus: Configuring workflows for dangerous goods checks.**

2.4 Industrial Hygiene and Safety

- **Concepts: Workplace safety, hazard identification, and risk assessment.**
- **Functions: Exposure monitoring, safety audits, and risk mitigation.**
- **Practical Application: Conducting risk assessments and implementing control measures.**
- **Implementation Focus: Setting up risk assessment templates and integrating with SAP EHS Risk Management.**

2.5 Occupational Health

- **Concepts: Employee health surveillance, medical services, and record-keeping.**
- **Functions: Health protocols, medical examinations, and reporting.**
- **Practical Application: Managing employee health data and scheduling medical checks.**
- **Implementation Focus: Customizing Fiori applications for employee medical management.**

2.6 Waste Management

- **Concepts: Tracking, disposal, and recycling of waste materials.**
- **Functions: Waste lifecycle management, regulatory reporting (e.g., REA).**
- **Practical Application: Managing waste streams and generating compliance reports.**
- ****Implementation For technical and functional specifications.**
- **Project Plan Development: Outlining phases, timelines, resources, and KPIs.**
- **Budget Determination: Estimating and approving project costs.**
- **Implementation Execution: Configuring SAP EHS modules, customizing user interfaces, and developing workflows.**
- **Testing: Conducting integration and user acceptance tests to ensure functionality.**
- **Training: Providing user training and creating documentation.**
- **Go-Live and Support: Deploying the solution and offering ongoing support.**

3.3 Integration with SAP Ecosystem

- **ERP and HR Integration: Linking EHS with SAP ERP, HR, and asset management for real-time data exchange.**
- **BW Integration: Configuring SAP Business Warehouse for advanced analytics and reporting.**
- **Fiori Applications: Developing mobile-friendly interfaces for EHS processes.**

3.4 Migration to SAP S/4HANA

- **Migration Challenges:** Transitioning from SAP ECC 6.0 to S/4HANA.
- **Strategies:** Data migration, system upgrades, and compatibility checks.
- **Tools:** Using SAP standard tools or partner-specific migration tools (e.g., SI PRO, LeverX).
- **Best Practices:** Conducting feasibility studies and proofs of concept.

3.5 Post-Implementation

- **Continuous Improvement:** Monitoring performance and adapting to business needs.
- **Support:** Providing 24/7 support and issue resolution.
- **Upgrades:** Keeping up with SAP S/4HANA releases and new functionalities.

Implementation Case Studies

- **Chemical Manufacturing:** Centralizing environmental management for global factories, addressing chemical spills, and ensuring compliance with REACH and CLP regulations.
- **Railway Transportation:** Implementing EHSM modules for safety and Fiori apps for employee medical management.
- **Medical Device Manufacturer:** Migrating to SAP and automating workflows for compliance.

Learning Outcomes

- Understand SAP EHS modules and their applications.
- Gain hands-on experience in configuring and managing EHS processes.
- Learn to implement SAP EHS using the SAP Activate methodology.
- Develop skills for integrating EHS with other SAP systems.
- Prepare for SAP EHS certification and real-world projects.

SAP EHS (Environment, Health, and Safety) Syllabus**1. Introduction to SAP EHS**

- **Objective:** Understand the purpose, scope, and importance of SAP EHS in organizational sustainability and compliance.
- **Topics:**
 - Overview of SAP EHS and its role in managing environmental, health, and safety processes.
 - Integration of SAP EHS with SAP S/4HANA and other SAP modules (e.g., SAP ERP, HR, Procurement).
 - Key benefits: regulatory compliance, risk mitigation, cost reduction, and sustainability.
 - Evolution of SAP EHS: From ECC 6.0 to S/4HANA EHS solutions.
 - Understanding EHSM (Environment, Health, and Safety Management) and its components.
 - Industry applications: Manufacturing, chemicals, energy, logistics, and more.
- **Learning Outcomes:**
 - Grasp the strategic importance of SAP EHS in modern businesses.
 - Understand its integration with other SAP systems for seamless operations.

2. SAP EHS System Architecture and Navigation

- **Objective:** Familiarize learners with the SAP EHS system interface and technical structure.
- **Topics:**
 - SAP EHS system landscape and architecture (ECC vs. S/4HANA).
 - Navigation through SAP EHS modules and user interfaces.
 - Introduction to SAP Fiori apps for EHS (e.g., incident management, risk assessment).
 - Basic data structures and reporting tools in SAP EHS.
 - Overview of EHS submodules and their interconnections.
- **Learning Outcomes:**
 - Navigate the SAP EHS system confidently.
 - Understand the technical framework and integration points.

3. Core SAP EHS Modules

This section covers the primary modules of SAP EHS, focusing on their functionalities and practical applications.

3.1 Incident Management (EHS-INC)

- **Objective:** Learn to manage and analyze workplace incidents to ensure safety and compliance.
- **Topics:**
 - Recording and documenting incidents, near-misses, and safety observations.
 - Incident investigation, root cause analysis, and corrective actions.
 - Integration with SAP HR and other modules for incident reporting.
 - Compliance with regulatory standards (e.g., OSHA, ISO 45001).
 - Reporting and analytics for incident trends and prevention.
 - Configuring workflows for incident management.
- **Practical Exercises:**
 - Create and manage an incident report in SAP EHS.
 - Perform a root cause analysis and assign corrective actions.
- **Learning Outcomes:**
 - Efficiently handle and document workplace incidents.
 - Use analytics to prevent recurring incidents.

3.2 Hazardous Substance Management (EHS-HSM)

- **Objective:** Understand the management of hazardous materials throughout their lifecycle.
- **Topics:**
 - Tracking and managing hazardous substances in the organization.
 - Creating and maintaining safety data sheets (SDS) and labels.
 - Compliance with regulations (e.g., REACH, GHS).
 - Integration with SAP Material Management (MM) for substance tracking.
 - Risk assessment for hazardous substances.
 - Automating compliance checks for hazardous materials.

- **Practical Exercises:**
 - Create a safety data sheet for a hazardous substance.
 - Configure compliance checks for regulatory adherence.
- **Learning Outcomes:**
 - Manage hazardous substances safely and compliantly.
 - Generate regulatory-compliant documentation.

3.3 Dangerous Goods Management (EHS-DGP)

- **Objective:** Learn to manage the storage, transportation, and delivery of dangerous goods.
- **Topics:**
 - Classification and labeling of dangerous goods.
 - Compliance with international regulations (e.g., ADR, IMDG, IATA).
 - Managing dangerous goods documentation and transport processes.
 - Integration with SAP Transportation Management (TM).
 - Safety measures for handling dangerous goods.
- **Practical Exercises:**
 - Configure a dangerous goods classification in SAP EHS.
 - Generate transport documentation for compliance.
- **Learning Outcomes:**
 - Ensure safe and compliant handling of dangerous goods.
 - Streamline logistics processes for hazardous materials.

3.4 Occupational Health Management (EHS-HEA)

- **Objective:** Master the tools for managing employee health and workplace hygiene.
- **Topics:**
 - Managing employee health data and exposure profiles.
 - Conducting health surveillance protocols and medical examinations.
 - Tracking occupational diseases and injuries.
 - Integration with SAP SuccessFactors for HR data.
 - Scheduling medical services and maintaining health logs.
 - Risk-based health management and reporting.

- **Practical Exercises:**
 - Set up a health surveillance protocol for a specific work area.
 - Generate a health report for compliance auditing.
- **Learning Outcomes:**
 - Monitor and manage employee health effectively.
 - Ensure compliance with occupational health regulations.

3.5 Industrial Hygiene and Safety (EHS-IHS)

- **Objective:** Learn to identify and mitigate workplace hazards.
- **Topics:**
 - Conducting risk assessments for workplace hazards (chemicals, equipment, environment).
 - Implementing safety protocols and mitigation measures.
 - Monitoring industrial hygiene standards.
 - Integration with SAP Asset Management for maintenance safety.
 - Reporting and analytics for workplace safety trends.
- **Practical Exercises:**
 - Perform a risk assessment for a workplace scenario.
 - Configure safety protocols in SAP EHS.
- **Learning Outcomes:**
 - Proactively address workplace hazards.
 - Enhance workplace safety through integrated processes.

3.6 Waste Management (EHS-WAM)

- **Objective:** Understand the management of waste to ensure environmental compliance.
- **Topics:**
 - Classification, tracking, and disposal of waste materials.
 - Compliance with environmental regulations (e.g., waste disposal laws).
 - Managing waste data and reporting emissions.
 - Integration with SAP Environmental Management for sustainability.
 - Automating waste management processes.

- **Practical Exercises:**
 - Configure a waste disposal process in SAP EHS.
 - Generate an environmental compliance report.
- **Learning Outcomes:**
 - Manage waste processes efficiently.
 - Ensure compliance with environmental regulations.

3.7 Product Safety (EHS-SAF)

- **Objective:** Ensure product safety and compliance throughout the product lifecycle.
- **Topics:**
 - Managing product safety data and compliance requirements.
 - Conducting product risk assessments.
 - Integration with SAP Product Lifecycle Management (PLM).
 - Ensuring compliance with safety and quality standards.
 - Generating product safety reports.
- **Practical Exercises:**
 - Create a product safety profile in SAP EHS.
 - Perform a product risk assessment.
- **Learning Outcomes:**
 - Ensure products meet safety and regulatory standards.
 - Streamline product safety documentation.

3.8 Environment Management (EHS-ENV)

- **Objective:** Learn to manage environmental impact and sustainability.
- **Topics:**
 - Tracking emissions, carbon footprint, and environmental data.
 - Compliance with environmental regulations (e.g., EPA, EU directives).
 - Managing environmental permits and audits.
 - Integration with SAP Sustainability solutions.
 - Reporting and analytics for environmental performance.

- **Practical Exercises:**
 - **Configure an emissions tracking process.**
 - **Generate an environmental impact report.**
- **Learning Outcomes:**
 - **Reduce environmental impact through effective management.**
 - **Ensure compliance with environmental laws.**

4. SAP EHS Implementation and Configuration

- **Objective: Understand the implementation process and configuration of SAP EHS.**
- **Topics:**
 - **SAP Activate methodology for EHS implementation.**
 - **Phases of implementation:**
 - **Current process evaluation.**
 - **Defining technical and functional requirements.**
 - **Setting project goals and assembling teams.**
 - **Developing project plans and budgets.**
 - **Configuring SAP EHS modules.**
 - **Integration with SAP S/4HANA, ERP, and other modules.**
 - **Data migration strategies for SAP EHS.**
 - **Testing and validation of EHS configurations.**
- **Practical Exercises:**
 - **Configure an EHS module (e.g., Incident Management) in a sandbox environment.**
 - **Simulate a data migration process.**
- **Learning Outcomes:**
 - **Understand the end-to-end implementation process.**
 - **Configure SAP EHS modules to meet business needs.**

5. Reporting and Analytics in SAP EHS

- **Objective:** Learn to leverage SAP EHS for data-driven decision-making.
- **Topics:**
 - Generating reports for incidents, compliance, and environmental performance.
 - Using SAP analytics tools (e.g., SAP Analytics Cloud) with EHS.
 - Creating dashboards for real-time KPI tracking.
 - Predictive analytics for risk management.
 - Customizing reports for regulatory compliance.
- **Practical Exercises:**
 - Create a compliance dashboard in SAP EHS.
 - Generate a regulatory report for submission.
- **Learning Outcomes:**
 - Use SAP EHS for actionable insights and reporting.
 - Customize analytics to meet organizational needs.

6. Advanced Features and Emerging Trends

- **Objective:** Explore advanced functionalities and future trends in SAP EHS.
- **Topics:**
 - AI-powered features in SAP EHS (e.g., risk assessment automation).
 - Integration with SAP Cloud Platform and SAP HANA.
 - Mobile applications for field hazard identification.
 - Sustainability solutions and carbon footprint management.
 - Migration to SAP S/4HANA EHS and Product Compliance.
 - Overview of EHS 4.0 and digital transformation.
- **Learning Outcomes:**
 - Understand advanced and emerging capabilities in SAP EHS.
 - Prepare for future trends in EHS management.

7. SAP EHS Certification and Career Path

- **Objective:** Prepare for SAP EHS certification and career opportunities.
- **Topics:**
 - Overview of SAP EHS certification process.
 - Preparation strategies for certification exams.
 - Career roles: EHS Manager, SAP EHS Consultant, Compliance Officer, Environmental Consultant.
 - Industry demand for SAP EHS professionals.
 - Resume-building tips for EHS roles.
- **Learning Outcomes:**
 - Prepare effectively for SAP EHS certification.
 - Understand career opportunities and job market trends.

8. Real-Time Projects and Case Studies

- **Objective:** Apply SAP EHS knowledge to real-world scenarios.
- **Topics:**
 - Case studies on SAP EHS implementations (e.g., chemical industry, railway transportation).
 - Hands-on project: Implementing an EHS solution for a sample organization.
 - Simulating compliance audits and incident management workflows.
 - Group projects to solve industry-specific EHS challenges.
- **Practical Exercises:**
 - Implement an end-to-end EHS solution for a manufacturing company.
 - Conduct a mock compliance audit.
- **Learning Outcomes:**
 - Gain practical experience in SAP EHS implementation.
 - Apply theoretical knowledge to solve real-world problems.

9. Best Practices and Regulatory Compliance

- **Objective:** Learn industry best practices and compliance requirements.
- **Topics:**
 - Aligning SAP EHS with global standards (e.g., OSHA, ISO 14001, REACH).
 - Best practices for incident management, risk assessment, and waste management.
 - Ensuring data security and integrity in SAP EHS.
 - Auditing and maintaining compliance with regulatory bodies.
- **Learning Outcomes:**
 - Implement best practices for EHS management.
 - Ensure regulatory compliance using SAP EHS tools.

10. Course Wrap-Up and Assessment

- **Objective:** Consolidate learning and evaluate understanding.
- **Topics:**
 - Review of key concepts and modules.
 - Q&A sessions and doubt resolution.
 - Final assessment: Written exam and practical project.
 - Feedback and course evaluation.
- **Learning Outcomes:**
 - Demonstrate proficiency in SAP EHS functionalities.
 - Earn a completion certificate (if applicable).