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Course Goals

- Explain how the fundamental business processes interact with SAP ERP in the areas of Sales Order Management, Material and Production Planning, Procurement, Inventory Management, Project Management, Plant Maintenance, Human Capital Management, and Financial and Management Accounting.
- Understand the analytical & reporting functions in SAP ERP, especially in the components SAP SEM and SAP BW.

Course Objective

- Describe enterprise resource planning based on SAP ERP.
- Describe the integration of the SAP ERP core applications.
- Perform integrated processes in SAP ERP.
- Explain SAP technical platform (NetWeaver) of SAP ERP.

Course Overview

- Understand integrated logistics and financial processes in SAP ERP
- Use of analytical components such as BI & SEM
- A high level overview of various Course Units

ERP Basics

MySAP ERP is the solution suite within the SAP Business Suite. It is based on SAP's listening to customers, user groups and further inputs from analysts and other thought leaders to better serve market demands of our customers and prospects. It is ready to service operational, tactical and strategic needs of enterprise and beyond enterprises ensuring collaboration among partners.

- Positioning of R/3 Enterprise towards SAP ERP
- Describe the SAP R/3 Enterprise organizational levels
- Describe the function of SAP R/3 Enterprise Master Data
- Explain SAP ERP reporting solutions

SAP Netweaver

- Describe the components of NetWeaver
- Explain how NetWeaver supports the business processes
- Describe the strategic advantage of NetWeaver

Business Warehouse

SAP Business Information Warehouse is a robust and scalable data warehouse. The reporting and analysis tools with BW offer a quick and easy way to gain access to the information you need. SAP Enterprise Portal serves as the single point of entry for the end user to access the complete business intelligence information portfolio.

As one of the building blocks of NetWeaver, SAP Enterprise Portal provides key capabilities such as Portal Infrastructure, Knowledge Management and Collaboration, all based on open technology and standards, which make SAP NetWeaver a powerful integration and application platform.

- Explain the basic concepts and architecture of SAP Business Information Warehouse
- Explain how SAP Business Information Warehouse reporting and analysis tools support the different business processes

Sales Order Management

- List the organizational units and master data that are critical to the Sales Order Management process
- Perform the order to cash business process
 - Effective sales order processing connects all activity to customer demand in a series of integrated processes. The application component Sales and Distribution makes this sales order processing possible. The steps in a sales process are then reproduced by electronic documents that are linked to each other.
- Identify key integration points with other SAP ERP processes
- Identify the reporting and analysis tools used in Sales Order Management process

Material Management

- Identify the organizational levels and master data used by material planning.
- Explain the difference between Material Requirements Planning and Consumption Based Planning
- Identify the integration points with Materials Management and Sales Order Management

Manufacturing Execution

- Describe the different manufacturing processes of discrete, repetitive, and process manufacturing
- Identify the organizational levels used by manufacturing execution
- Understand the master data used by manufacturing execution
- Perform manufacturing execution activities
 - Identify the integration points with Materials Management, Financial Accounting, Controlling, and Sales and Distribution
 - Describe the basic steps used in producing a product with production orders
 - Create a production order, process inventory transactions, and report production confirmations
 - Describe the process of order settlement
 - Identify the integration points with Materials Management, Financial Accounting, Controlling, and Sales and Distribution
- Review production performance using information systems and cost management reports

Procurement Cycle

- Identify the organizational levels and master data that support the procurement process
- Perform the procurement cycle for stock and consumable materials including purchase requisitions, purchase orders, goods receipt, invoice receipt, and vendor payment
 - Determination of requirements
 - Determination of the source of supply
 - Vendor selection
 - Purchase order processing
 - Purchase order monitoring
 - Goods receipt
 - Invoice Verification
 - Payment processing
- Identify the integration points with Financials, Production Planning, Plant Maintenance, and Project Systems

- Identify the reporting and analysis tools used in Procurement

Inventory and Warehouse Management

- Enter a goods receipt into blocked stock and quality inspection
- Explain the difference between stock transfers and transfer postings
- Describe physical inventory procedures

Lifecycle Data Management

- Explain how Lifecycle Data Management integrates with the business processes within the SAP ERP solution
- Explain the purpose of Product Structure Browser and Engineering Workbench
- Describe the functions of the Classification system
- Explain Variant Configuration
- Gain a basic understanding of the Document Management System
The Document Management System allows the integration of external files into SAP ERP
- Explain the Engineering Change Management Process
ECM is a central logistical function for master data changes. These changes are monitored, and, as necessary, documented completely.

Project Management

- Describe the basic functions associated with project planning board.
- Explain the project planning, budgeting, execution, and period-end closing steps in project management.
- Identify the integration points with Financials, Materials Management, Production Planning, and Sales Order Management.

Enterprise Asset Management

- List the organizational structures in Enterprise Asset Management
- Define the technical objects used in the Enterprise Asset Management
 - Define Functional Locations
 - Identify functional location using structure indicator
 - Define Equipment
 - Identify the application of Bills of Material in Plant Maintenance
- Perform the Corrective Maintenance process
 - Identify and perform the phases of the Corrective Maintenance process
 - Identify the integrations points with other SAP ERP processes
- Identify the reporting and analysis tools used in Enterprise Asset Management
 - Understand the tools involved in analyzing maintenance history
 - Process reports using the Plant Maintenance Information System
- Identify the integration points with other SAP ERP modules

Human Capital Management

- Define organizational structures in Human Capital Management
- Manage employee records
 - Describe how to manage employee records in Human Capital Management
 - Identify the use and benefits of Employee Self Service (ESS)

- Describe basic business processes in the area of Human Capital Management
The Human Capital Management Processes include:
 - Recruitment
 - Hiring
 - Training and Personnel Development
 - Managing Work Time
 - Compensation and Benefits
 - Payroll Administration
 - Travel Planning
 - Personnel cost planning and Reporting
 - Employee Self-Services
- Identify the integration points with other ERP processes
- Explain the reporting and analysis tools in Human Capital Management

Financial Accounting

- Explain the organizational structures and master data of Financial Accounting
- Perform typical accounting transactions in the application components of Financial Accounting
- Identify the integration points with Sales and Distribution, Materials Management, and Controlling
- Understand Fixed Asset Accounting
- Prepare financial statements

Management Accounting

- Define the organizational structures and master data used in Management Accounting
- Explain the functions of the different Controlling components
- Identify the other SAP ERP processes that post data to Management Accounting
- Explain the purpose of the Reconciliation Ledger
- Identify the integration points between Financial Accounting, Materials Management, Production Planning, Sales and Distribution, Project Systems, and Human Resources
- Perform cost analysis using different Management Accounting tools

Strategic Enterprise Management

Strategy Management, encompassing the Balanced Scorecard, is an instrument to convert business strategies into understandable, meaningful targets, and the individual targets are assigned to a perspective or „view“. The standard scorecard, has 4 views, namely, Financial, Customer, Internal Processes and Learning & Growth.

- Explain the components of SEM and their main features
- Explain the positioning of SEM and it's use of data for analytic purposes