

## **HANA -FICO (Finance & Controlling)**

SAP FI - Here SAP handles accounting and finance postings. The main activity is Accounts Receivable (customers) and Accounts Payable (suppliers), and normal General Ledger accounting, for example bank accounts. But also cash management, assets and investments are handled in this SAP module.

SAP CO - here SAP handles the company internal accounting, also called controlling. The main activity is postings to Cost Centers (departments), Internal Order (small projects), and Profit Centers. SAP CO is primarily used for reporting, in order to monitor the financial development of the company. SAP CO and FI are fully integrated.

This course will give you a really good and broad overview of SAP financial accounting reports and cost center accounting. You will learn to perform the daily tasks most frequently used in SAP FICO. The course is divided into these sections:

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- **Overview of ERP & SAP**
- **Introduction to FI/CO**
- **System Environment, Implementation Phases, SAP Methodologies, Introduction to Other Modules**
- **Configuration sequences**
  
- **General Settings**
  - Country/Currency
- **Enterprise Structure**
  - Company code
  - Company
  - Business Area
  - Functional area
- **Financial Accounting Global setting**
  - Variants
    - Fiscal year Variant
    - Posting Period Variant
    - Field Status Variants
    - Variants assignments
  - Tolerance
    - Tolerance for document posting (Global)
    - Tolerance groups
  - Posting Keys
  - Document Types
  - Document number ranges
  - Sale/Purchase Tax
    - Country Tax procedure
    - Tax codes-Input/Output
    - Tax exemption
- **General Ledger**
  - Chart of Accounts
    - Account Groups
    - Retained Earning account
  - Financial Statement version
  - GL Master data
    - Creating GL Accounts
  - Sample Account
  - Line items

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- Open items
- Document Creation/ Posting
  - Open and Close Posting Period
  - Journal entries
  - Sample Document
  - Recurring Entries
  - Document Parking / Holding
  - Document reversing
  - GL Interest Calculation (Ledger Balance)
  - Open Item clearing
  - Line item / Balance display
  - Cross-company code transaction
- **Account Receivables/Payables**
  - Sub-ledger postings
  - Re-conciliation Accounts
  - Customer / vendor groups, Screen layout rules
  - Customer / Vendor Master data
  - Withholding Tax
  - House Banks / Check Lots
  - Creating Invoice
  - Making/receiving payments
  - Payment clearing
  - Clearing payments between Customer-Vendor
  - Automatic Payment Program
  - Special GL transactions
    - Down Payments, Bill of Exchange, Cross Code postings
  - Interest calculation (Line-items)
  - Dunning
  - Bank Re-conciliation
  - AR/AP reporting
- **Cash Journal**
- **Special Purpose Ledger**
  - Validation and substitution
- **Asset accounting**
  - Chart of Depreciation
  - Asset Class / Asset group/ sub group
  - Screen layout rules
  - Depreciation Areas
  - Depreciation Keys
  - Asset master records
  - Asset transaction
    - Capitalization
    - Acquisition/Transfer/Retirement
  - Depreciation Calculation and Postings
  - Asset reporting
- **Closing**
  - Monthly/Quarterly/Yearly
  - Generating P&L and Balance Sheet
- **Integration**
  - FI-SD
  - FI-MM
- **Travel Management**
- **Controlling (Overview)**
  - Introduction to CO
  - Integration with FI
  - CO Enterprise structure
  - Cost element accounting

- Cost center accounting
- Profitability Analysis

## **SAP HANA 2.0 SPS03 – Installation and Administration**

- This course is the best starting point to learn about SAP HANA installation, update, configuration and system administration.
- The course is independent from the SAP Net Weaver administration world, as it teaches how to perform system administration on the SAP HANA platform. The system administration tools used are native to the SAP HANA platform.
- Throughout the course, you will learn about the following SAP HANA too for installation, update, configuration and system administration.
  - SAP HANA database lifecycle manager (HDBLCM)
  - SAP HANA cockpit 2.0
  - SAP HANA studio
  - SAP HANA HDBSQL command line
- At the end, you will be able to perform all the required daily system administration tasks on the SAP HANA database platform.
- Contents:
  - SAP HANA introduction
  - Installation sizing and OS preparations
  - SAP HANA installation and upgrade/conversion to a multitenant database
  - SAP HANA architecture and deployment options
  - SAP HANA cockpit 2.0 installation, configuration and upgrade
  - SAP HANA Administration tools
  - Post installation steps
  - Database administration tasks using SAP HANA cockpit 2.0
  - Backup and recovery using SAP HANA cockpit 2.0
  - SAP HANA Security
  - User and authorizations

## **SAP HANA 2.0 SPS03 – High Availability and Disaster Tolerance Administration**

- This course is the best starting point to learn about SAP HANA high availability, disaster tolerance and multitenant capabilities in larger SAP HANA landscapes.
- The course is independent from the SAP NetWeaver administration world, as it teaches how to perform system administration on the SAP HANA platform. The system administration tools used are native to the SAP HANA platform.
- Throughout the course, you will learn about the following advanced SAP HANA administration topics.
  - SAP HANA scale-out and host auto failover.

- SAP HANA multitenant features
- SAP HANA system replication between datacenters
- SAP HANA python scripts provided by SAP
- At the end, you will be able to perform all the required advanced system administration tasks on the SAP HANA database platform.
- Contents:
  - SAP HANA High Availability and Disaster Tolerance
  - SAP HANA multi host scale-out and host auto failover
  - SAP HANA storage and system replication
  - SAP HANA system replication options
  - SAP HANA multitenant features
  - SAP HANA python scripts provided by SAP

## **SAP HANA 2.0 SPS03 – Using Monitoring and Performance Tools**

- This course is the best starting point to learn about the SAP HANA Monitoring and Performance Tools.
- Contents:
- Emergency Analysis and Troubleshooting using SAP HANA cockpit 2.0
  - Handling System Offline Situations
  - Handling System Hanging but Reachable Situations
  - Analyzing a Suddenly Slow System
- Structural System Performance Root Cause Analysis
  - Analyzing Memory Issues
  - Analyzing CPU Issues
  - Analyzing Expensive Statements Issues
  - Analyzing Disk and I/O Issues
- Proactive Monitoring and Performance Safeguarding
  - Configuring SAP HANA Alerting Framework
  - Setting up SAP HANA Workload Management
  - Using SAP HANA Capture and Replay

## **SAP HANA 2.0 SPS03 – Authorizations, Scenarios & Security Requirements**

- The aim of this course is to prepare the student to work on authorizations and security on the SAP HANA Platform. The course initially covers system level security including Network and Communication security and Data Storage encryption, then it focuses on user management, authentication, authorizations, and auditing. Specific exercises are proposed, about LDAP Group authorization, User Groups, Data Masking, Authorization trace.
- Some basic concepts of application development on the XS Advanced are introduced since they are required to properly work on authorization roles.

- Table of contents:
  - SAP HANA Overview
  - Network and Communication Security
  - Certificate Management
  - Data Storage Security
  - Object Ownership
  - User Management
  - Authentication and Single Sign-On
  - Elements of application development in XS Advanced
  - Elements of application development in XS Classic (optional)
  - Authorizations
  - Analyzing Users and Authorizations
  - Auditing
  - Security for SAP HANA Extended Application Services, class model (XSC, optional)
  - Security for SAP HANA Extended Application Services, advanced model (XSA)
  - SAP BW Models in SAP HANA
  - Integration with SAP Business Objects BI 4.X (optional)
  - SAP HANA with ERP or S/4HANA and the Analytics Authorization Assistant (optional)
  - Integration with SAP GRC (optional)
  - Integration with SAP Identity Management (optional)
- Note: content, which is marked as “optional”, refer to secondary Lesson and Exercises and won't be covered in this 2 days classroom course (due to lack of time, they mostly cover security on the deprecated XS Classic architecture, plus some overview lessons on related subjects). Nevertheless, we left such contents in the training material, since they could be of interest for a subsequent review by the student.

## **SAP HANA 2.0 SPS02 – Database Migration**

- Getting Familiar with Database Migration Option (DMO)
  - Listing DMO Benefits
  - Explaining DMO Basics
- Preparing Database Migration Option (DMO) Procedure
  - Ensuring DMO Prerequisites are Fulfilled on the Host
  - Configuring SAP Host Agent for DMO
  - Examining the SUM UI
- Configuration of Database Migration Option (DMO) Procedure
  - Starting the DMO Run
  - Continuing DMO with Roadmap Steps Configuration and Checks
  - Continuing DMO with Roadmap Steps Preprocessing
  - Listing DMO Procedure Steps
  - Monitoring the Migration
  - Resetting the DMO Procedure

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- Tuning the DMO Downtime
- Listing the DMO Steps After Roadmap Step Preprocessing
- Explaining the DMO Release Schedule
- Listing Migration Options to SAP HANA