

Training Catalogue An overview of the SAP training courses we offer.



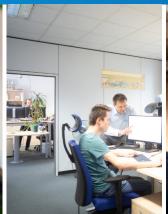




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GENERAL INFORMATION

INFORMATION

The **duration** and **content** of the SAP training courses depend on your requirements. In a joint workshop, we record the current knowledge levels of your employees and define individual learning objectives. We then draw up needs-based training plans.

Prerequisite for participation in the training courses: A company-internal SAP licence is available.

SAP MODEL COMPANY OTTO BIKES

Our in-house developed **Model Company Otto Bikes** makes it easy to apply and understand integrated business processes. The underlying data set and ready-to-use training materials form the basis of our training courses.



SYMBOL DIRECTORY

Presentations

← Exercises

Q Case Studies

\$ Live Demos

□ German

≋ English

EXPLANATIONS OF THE PROCEDURE

Presentations

Convey the basic theoretical knowledge on the individual topics.

4- Exercises

Users click through simple exercises to better understand the theoretical content.

Q Case Studies

Users learn the theoretical content directly on the system by means of case studies. These are more challenging than the exercises.

Demos on the System

Various processes are demonstrated on the SAP system.

SAP S/4HANA BUSINESS PROCESSES

LEVEL

Beginners and advanced SAP users

PREREQUISITES

None, understanding of basic business processes advantageous

WHAT IS SAP S/4HANA?

In the digital and connected world, IT support for business processes is the reliable engine in the everyday work of almost all companies. With the help of so-called ERP (Enterprise Resource Planning) systems, the complexity in one's own processes and in interacting with the global economy becomes manageable. SAP S/4HANA is the latest ERP solution from SAP SE. It covers all critical business processes and sees itself as the digital core of companies. The solution is based on the in-house SAP HANA database and enables companies to analyse their business data, execute transactions and manage business processes in real time.

POSSIBLE TOPICS

- Introduction to SAP S/4HANA (including architecture and data model) and SAP Fiori
- Navigation in SAP S/4HANA
- Introduction to business processes with SAP S/4HANA
- Presentation and exemplary editing of sample processes in the modules
 - ► Sales and Distribution (SD)
 - Materials Management (MM)
 - Production and Planning(PP)
 - ► Financial Accounting (FI)
 - ► Controlling (CO)
 - ► Human Resources (HCM)
 - Warehouse Management (WM)
 - Project Management (PS)
 - Enterprise Asset Management (EAM)
 - Quality Management (QM)
- · Execution of mini-games

DURATION PROCEDURE LANGUAGE From 2 days □ □ Depending on requirements □ □ Q □

SAP S/4HANA CONFIGURATION

LEVEL

Beginners and advanced SAP users

PREREQUISITES

Relevant experience in <u>SAP</u>
<u>S/4HANA</u>: finance (FI), procurement (MM), sales and distribution (SD)

WHAT IS CONFIGURATION?

The latest ERP solution of SAP S/4HA-NA from SAP SE, is a standard software and is typically customized to the company's requirements during implementation. Through configuration, companies can map their corporate structure and business processes in the SAP S/4HANA system, tailor them to their needs and optimize them by comparing them to established standard processes. The individual settings on individual modules enable the broad and cross-industry use of SAP S/4HANA.

POSSIBLE TOPICS

- Conducting a scenario-based implementation project
- Content challenges in IT project management
 - Scenario analysis
 - ▶ Problem identification
 - Problem analysis
 - ▶ Solution finding
 - Project planning
 - ► Implementation
- · Implementation of the modules
 - ► Finance
 - Procurement
 - Sales and distribution
- Configuration in SAP Fiori

Further Topics

- Checking ABAP roles and authorizations
- Implementing access controls and authentication in SAP BTP

DURATION
PROCEDURE
LANGUAGE

1-4 days
□
□

Depending on requirements
Q
□

SAP DEVELOPMENT (1/2)

LEVEL

Beginners & advanced SAP users

PREREQUISITES

First programming experience is recommended, but not necessary

WHAT IS SAP DEVELOPMENT?

SAP development allows you to customize your SAP system to meet your individual needs and requirements.

ABAP and SAPUI5 allow you to develop solutions to your problems and challenges.

POSSIBLE TOPICS

ABAP Development

- ABAP with ABAP objects
- ABAP dictionary
- Report
- Selection screen
- RFC (Remote Function Call)
- ALV (SAP List Viewer, formerly ABAP List Viewer)
- Modularization
- Object-oriented and procedural programming
- OpenSQL
- CDS view (Core Data Service)
- Database table

Frontend Development

- SAP Fiori Launchpad
- Fiori Launchpad Designer
- SAP Fiori and SAP Fiori design guidelines
- Differences between SAP Fiori and SAP GUI
- · User experience and usability
- · SAPUI5
- Getting started with SAP Fiori elements
- · OData Service

SAP DEVELOPMENT (2/2)

Further Topics

- Introduction to the development tools:
 - Visual Studio Code
 - Eclipse IDE with ADT (ABAP Development Tools)
 - SAP BAS (Business Application Studio)
 - ▶ SAP Web IDE
- Git and GitHub
- Debugging
- Commenting
- Transport system
- · inMemory database
- Introduction to forms (SAPscript, SAP Smart Forms)
- Security in the development of SAP BTP Cloud Foundry Apps
- Security in the development of ABAP programs
- Further topics on request



SAP HANA FOR ADMINISTRATORS

LEVEL

Beginners and advanced SAP users

PREREQUISITES

None

WHAT IS SAP HANA?

SAP HANA is the database (DB) of the future from SAP with queries and transactions in real time using in-memory technology. The entire SAP Business Suite is available on SAP HANA, and is therefore particularly relevant for all SAP S/4HANA as well as BW/4HANA systems, for example.

POSSIBLE TOPICS

- HANA overview, architecture and processes
- HANA DB operation & troubleshooting
- · Parameterization and checks
- Administration tools SAP HANA Studio
- Administration tools SAP HANA Cockpit
- · Updates
- Monitoring tools
- Memory management and persistence
- Backup and recovery
- · Security management
- · Users, roles and permissions
- High availability
- Sizing
- Dynamic Tiering, Data Aging, NSE
- · Smart Data Integration
- XS Advanced

DURATION
PROCEDURE
LANGUAGE

9-10 days
□
□

Depending on requirements
□
□

SAP HANA FOR DEVELOPERS

LEVEL

Beginners and advanced SAP users

PREREQUISITES

None

WAS IST SAP HANA?

SAP HANA is an in-memory database and serves as a development and integration platform for real-time software applications. It contains various functions for application development.

POSSIBLE TOPICS

- SAP HANA Modeling
- Replicating and loading data (SDI/ SDA)
- XS Advanced and the SAP HANA WebIDE
- · Reporting
- Roles and authorizations
- · Native Development
- Data Mining (SAP HANA AFL)
- Text Analytics
- · Geospatial Processing



SAP BW/4HANA (1/2)

LEVEL

Beginners to advanced SAP users

PREREQUISITES

Depending on the training content

WHAT IS SAP BW/4HANA?

SAP BW/4HANA is a data warehouse that includes the use of the in-memory database SAP HANA. Thus, SAP BW/4HANA can bundle different data sources (from SAP, as well as non-SAP applications) and enables a compressed view on one platform. Complex analysis and evaluation of all company data across different data sources is enabled

POSSIBLE TOPICS

SAP BW/4HANA Basics (5-15 days, no prior knowledge required)

- Extractors
 - Business Content SAP S/4HANA
 - CDS based
 - ▶ Classic
- BW Reporting Objects
 - ▶ ADSO
 - Composite Provider
 - Open ODS Views
- Data Flows
 - ► Transformations
 - ▶ DTP
 - ▶ Process chains
 - Monitoring
- Frontend
 - Queries
 - Analysis for Office
 - SAP Analytics Cloud
- · Design concepts (e.g. LSA++)

SAP BW/4HANA (2/2)

SAP BW/4HANA Delta Training

(2-4 days, SAP BW knowledge required)

- New objects in BW (see BW Basics)
- Procedures for migrating data and objects that are no longer supported in SAP BW/4HANA
- Design concepts (e.g. LSA++)

SAP HANA Native Development (1-2

days, previous database knowledge required)

- CDS Views
- · Calculation Views
- Smart Data Access (SDA)
- · Design SAP HANA data flows
- Monitoring SAP HANA data flows

Data Lifecycle Management im BW

(1-2 Tage, SAP BW Vorkenntnisse notwendig)

- · Data Lifecycle Konzepte
- Dynamic Tiering
- Archivierung
- Monitoring und Einbindung in bestehende BW Infrastrukturen

SAP DATASPHERE (FORMERLY DWC) (1/2)

LEVEL

Beginners and advanced Business Warehouse users

PREREQUISITES

None for introductory training

BW knowledge for advanced training

WHAT IS SAP DATASPHERE?

With the SAP Datasphere, SAP offers a cloud-based solution for data management and analysis. Data from different sources can be modelled and visualized for further processing.

POSSIBLE TOPICS

SAP Datasphere Introduction (2-3 days)

- Introduction to SAP Datasphere
- Introduction to Data Builder using ER model
- Modelling tables, views (graphically and with SQL)
- Creating data flow (incl. Python scripts)
- Evaluation with SAP Analytics Cloud
- · Introduction to Business Builder
- Modelling of dimensions, analytical dataset, consumption model
- Versioning
- · Data evaluation SAP Analytics Cloud

Notice:

SAP provides a 90-day trial version for SAP Datasphere. This enables you to familiarise yourself with the topic in advance.

SAP DATASPHERE (FORMERLY DWC) (2/2)

SAP Datasphere for SAP BW consultants (2-3 days, workshop character)

- · Introduction SAP Datasphere
- Introduction to Data Builder based on ER model
- Modelling tables, views (graphically and with SQL)
- Creating data flow (incl. Python scripts)
- Evaluation with SAP Analytics Cloud
- Introduction to Business Builder
- Modelling of dimensions, analytical dataset, consumption model
- Versioning

- · Data evaluation SAP Analytics Cloud
- Which SAP Datasphere functions replace which functions in BW?
 - Composite / View
 - ► ADSO / Table
 - Transformations and transformation logic as well as process chains / data flow
 - Queries
- What are the strengths and weaknesses of SAP Datasphere compared to BW?
- Combined scenarios (SAP BW/4HANA, SAP Datasphere, SAP Analytics Cloud)

Notice:

SAP provides a 90-day trial version for SAP Datasphere. This enables you to familiarise yourself with the topic in advance.

DURATION	PROCEDURE	LANGUAGE
Depending on requirements	P	p
	4->	
	Q	

SAP ANALYTICS CLOUD

LEVEL

Beginners and advanced SAP users

PREREQUISITES

None, Excel knowledge is advantageous

WHAT IS SAP ANALYTICS CLOUD?

The SAP Analytics Cloud is an analysis and planning tool for the simple analysis and presentation of company data. This data can be optimally processed for presentations.

POSSIVLE TOPICS

- Basics and technologies / delineation of the components of SAP Analytics Cloud
 - Stories
 - Analytic Applications
 - Digital Boardroom
 - Planning
- Design guides for a good SAP Analytics Cloud application
- Models
 - ▶ What is a model
 - Connection options to data sources
 - Connection type (at application runtime or store data in the SAP Analytics Cloud)
- · Creating a Story
- Create an Analytic Application
- · Create a Digital Boardroom
- · Creating a Planning Application

Notice:

SAP provides a 90-day trial version for SAP Analytics Cloud. This enables you to familiarise yourself with the topic in advance.

DURATION	PROCEDURE	LANGUAGE
1-4 days	P	p
Depending on requirements	4+	
	Q	

SAP BASIS OPERATION

LEVEL

Beginners to advanced SAP users

PREREQUISITES

Depending on course content**

WHAT IS SAP BASIS?

SAP Basis includes the operation and maintenance of SAP systems. This includes system installation, patching, monitoring and troubleshooting.

POSSIBLE TOPICS

Linux for SAP Basis (1-2 days)

No previous knowledge necessary

Overview and Basics (2-3 days)

- Structure of an SAP system
- Basic functionality
- · Maintenance activities
- Use of a transport landscape

Transport Landscape** (1 day)

- Structure of a transport landscape
- Extended transport control

System Installation** (practical only, 3-5 days)

- Installation of an SAP S/4HANA system
- Integration into an existing landscape

Monitoring via Solution Manager**

(practical only, from 5 days)

- · Setting up the Solution Manager
- System connections
- Metrics
- · Operational operation
 - Setting up mail dispatch
 - Working with alerts

System Upgrade** (1-4 days)

- Preparations and checks
- Phases in the upgrade

^{**} The "Overview and Basics" training is a **prerequisite** for these courses. If you already have basic knowledge of SAP Basis, the training is not necessary.

DURATION	PROCEDURE	LANGUAGE
Depending on requirements	P	p
	Q	
	*	

SAP SECURITY

TARGET AUDIENCE

SAP Basis, IT Security, Audit

PREREQUISITES

Depending on course content

WHAT IS SAP SECURITY?

SAP Security refers to the protection of SAP systems and applications from unauthorized access, cyber threats, and other risks. Securing SAP systems is critical because they often manage business-critical processes and sensitive data.

POSSIBLE TOPICS

Fundamentals of Creating a SAP Pentest Playbook (half day, knowledge of SAP S/4HANA, as well as security measures for information systems required)

- Current threat situation and general SAP security measures
- Testing of all important components of an SAP system in accordance with BSI guidelines
- Quick check of SAP systems for basic security
- Mitigation of the most important SAP security vulnerabilities

Fundamentals of Attacking & Defending SAP Systems (1 day, knowledge about Linux operation and Unix necessary)

- Introduction into SAP, SAP solution architecture and networking capabilities
- Overview on operating systems and SAP systems database technology
- Introduction into SAP S/4HANA from a security perspective
- Overview of SAP user account security traits
- Attacks scenarios for password-based authentication
- Overview of different SAP software components and service and protocols from a security point of view
- Introduction into the SAP system web application security
- Overview of SAP technology audit trails and security event sources

Note: An in-house SAP license is NOT required for these trainings.

DURATION

Depending on requirements

PROCEDURE





Q

LANGUAGE

Only Fundamentals of Attacking & Defending SAP Systems



SAP SOLUTION MANAGER

LEVEL

Beginners and advanced SAP users

PREREQUISITES

Prior knowledge of <u>SAP Basis</u> is an advantage, but not a prerequisite for participation in this training.

WHAT IS THE SOLUTION MANAGER?

The Solution Manager supports the administration of SAP enterprise applications. It offers many tools for managing the system landscape throughout the entire life cycle of the applications.

POSSIBLE TOPICS

- Motivation
- · What is SAP Solution Manager?
- Configuration Solution Manager
- Administration of the system landscape - Landscape Management Database (LMDB)
- Monitoring
- · IT Service Management
- · Change Control Management
- · Solution Management
- Test Suite
- Focused Build and Focused Insights

