erp4students
Stand out from the crowd

IMPROVE YOUR CAREER CHANCES WITH AN OFFICIAL SAP CONSULTANT CERTIFICATION

Boost your Career
Be the first working with S/4HANA!
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In order to start a successful career after many years at school and university, SAP-skills have become an indispensable factor. Understanding SAP software and the ability to work with it is vital in many areas of the job market. For many positions today such skills are mandatory. When this is not the case, applicants can still be sure to enhance their chances to be accepted for a job when they can proof that they already bring SAP-skills from their time at university.

Since its foundation in 1972, SAP SE, based in Walldorf, Germany has become Europe’s largest software developer. In the field of enterprise software, SAP is the world’s market leader. Almost 350,000 customers worldwide make use of SAP products in order to execute their business processes (e.g. controlling, sales, production, logistics, human resources, marketing etc.). Customers are mid-size business up to most of the big concerns noted at the stock market.

Enterprise Resource Planning (ERP), or the follow-up system SAP S/4HANA respectively, is the standard software all businesses need to run their business processes. In this field SAP ERP and SAP S/4HANA are the most prevalent products in the world! They cover all of the processes mentioned above and, thus, are used in many different divisions of a company. Additionally, products such as SAP BW (Business Warehouse), SAP CRM (Customer Relationship Management) and many more are specially tailored for certain business areas. While for example SAP BW provides a powerful tool to analyse company data and thus helps to make important decisions, SAP CRM is perfectly suited for the areas marketing, sales and service. In order to adjust SAP products to a company’s structure it can be customized exactly according to the respective needs. The possibilities are endless.

With the growing number of SAP customers, the need for young professionals with SAP-skills increases – no matter in which area. SAP is, for example, used by logistic companies, the telecommunication sector, automotive companies, as well as banks and the retail sector. No matter which area and position you prefer, SAP-skills are needed – and evermore often expected – in almost any of them. Thus, having a basic understanding of SAP is a great asset to any application. Additional specialisations in certain SAP areas such as SAP BW and SAP CRM (and others) can help concretising one’s own plan of the personal career and reaching intended goals quicker.
Industry has been complaining for a long time that a university education is not enough in order to prepare students for the challenges of their later professional lives. The focus on theoretical and methodical knowledge is very beneficial over a long period of time. However, it rarely helps to deal with actual challenges at work. In a business environment skills and competencies are required in addition to subject-matter knowledge.

Studies have shown that students acquire competencies when confronted with challenges they have to tackle individually or in small teams. The latter becoming more and more important due to the rise of agile project management approaches. The acquired competencies have a lasting effect and can be used to solve new problems. It is, however, necessary that students engage with the subject intensively. Self-directed, situational learning (i.e. dealing with real problems based on case studies) is seen to specifically foster competencies; it facilitates generalized knowledge acquisition. This kind of knowledge, developed through abstraction from individual experience, always has a direct link to an actual situation in contrast to pure abstract knowledge. It is of utmost importance to encourage students to regularly reflect on experiences they gained in the practical study of the topic. E-learning courses with a focus on practical case studies canconvey generalized knowledge. erp4students is proud to offer a curriculum of courses that combine important theoretical contents with hands-on case studies. Thus, students can be sure to gain a long lasting theoretical knowledge they can later easily apply practically when they face challenges in a professional environment.

erp4students is a program exclusively available for students. It consists of extra-curricular courses, developed in Germany and since 2006 offered in cooperation with the University of Duisburg-Essen. Since 2019, erp4students cooperates with the Brandenburg University of Applied Sciences. erp4students holds the rare opportunity for students to get in touch with SAP software products while at university and to gain relevant competencies in working with the world’s leading enterprise software. Participants, thus, acquire a clear competitive edge on the job market in comparison to other graduates. In addition to theoretical basics on the respective subject matter, students get the chance to work on an actual SAP system.
SAP consult certification exam

The work on the course can be done online from home. Each certification exam, which takes three hours, is carried out on a computer and is a knowledge test comprising 80 multiple choice questions. You can taken the exam online from home at anytime you like (also on weekends).

Technical requirements:
• Computer with an internet connection
• Webcam: Must be functional
• Microphone or headset: Must be functional. We do not recommend the use of a cell phone headsets

For students, flexibility is probably the most important aspect about erp4students. All resources are accessible 24 hours a day – even on weekends and during semester breaks! The only deadline is the last day of the course.

erp4students: Program Overview

erp4students provides a broad expertise in the field of SAP software. In several e-learning courses, you will gain precious practical skills in working with different software products of SAP, as well as the theoretical and methodological background that is required in the official SAP certification exams.

The illustration below clarifies the topical connection between the courses: The common basis of the program is the course „Enterprise Resource Planning with SAP S/4HANA (TS410)“. On this basis, the other areas build up. When there is more than one course in a specific area, these courses are consecutive and thus based on each other.

Course fees and more information on each area can be found in the upcoming charts.
SAP Enterprise Resource Planning (SAP ERP)

<table>
<thead>
<tr>
<th>erp4students Course</th>
<th>equal course at SAP Education</th>
<th>Price at SAP for non-students</th>
<th>Fee at erp4students*</th>
</tr>
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<tbody>
<tr>
<td>Enterprise Resource Planning with SAP S/4HANA (TS410)</td>
<td>TS410</td>
<td>6.900 € + VAT</td>
<td>400 €</td>
</tr>
<tr>
<td>SAP Exam: C_TS410_1709</td>
<td></td>
<td>400 € + VAT</td>
<td>150 €</td>
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<tr>
<td><strong>Total Price:</strong></td>
<td></td>
<td>7.300 € + VAT</td>
<td>550 €</td>
</tr>
</tbody>
</table>

* Due to SAP regulations, the exam fees differ in some countries:
  ◦ Austria/Germany: 150 €
  ◦ Switzerland: 190 €
  ◦ Other European Countries: 99 € + VAT

In the course „Enterprise Resource Planning with SAP S/4HANA (TS410)” participants do not only gain plenty of practical knowledge in working with an SAP S/4HANA system (by solving case studies). They are also prepared for the official consultant certification C_TS410_1709. The respective exam can be taken at a special rate after the e-learning course.

SAP Business Warehouse (SAP BW on HANA)

<table>
<thead>
<tr>
<th>erp4students Course</th>
<th>equal course at SAP Education</th>
<th>Price at SAP for non-students</th>
<th>Fee at erp4students</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAP BW on HANA - Dataflow and BusinessObjects Analysis</td>
<td>BW305H and BW310H</td>
<td>7.620 € + VAT</td>
<td>450 €</td>
</tr>
<tr>
<td>SAP BW on HANA - Data Acquisition and BusinessObjects Reporting</td>
<td>BW350H and TBI30</td>
<td>6.810 € + VAT</td>
<td>450 €</td>
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<tr>
<td>SAP BW on HANA - Data Modelling and BusinessObjects Applications</td>
<td>BW330H</td>
<td>3.450 € + VAT</td>
<td>450 €</td>
</tr>
<tr>
<td>Exam Fee</td>
<td></td>
<td>400 € + VAT</td>
<td>190 €</td>
</tr>
<tr>
<td><strong>Total Price:</strong></td>
<td></td>
<td>18.280 € + VAT</td>
<td>1.540 €</td>
</tr>
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</table>

After each one of the erp4students courses, a certificate from the Brandenburg University of Applied Sciences is issued that states the practical work on the system, the course’s contents and the workload of 150 - 180 hours / 6 ECTS. Participants are offered the chance of taking the official SAP certification exam which is offered in various locations. After passing the exam, the official SAP consultant certificate (C_TBW50H_75) is issued. As a result of our cooperation with SAP University Alliances and SAP Next-Gen we are able to offer the exam at special rates for students. Please see below for detailed information on the BW program, course contents and compatibility with SAP’s own BW program.

The given rates are only available for students. We can offer the courses at these rates due to our cooperation with SAP University Alliances and SAP Next-Gen.
erp4students

SAP Customer Relationship Management (SAP CRM)

<table>
<thead>
<tr>
<th>erp4students Course</th>
<th>equal course at SAP Education</th>
<th>Price at SAP for non-students</th>
<th>Fee at erp4students</th>
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</thead>
<tbody>
<tr>
<td>SAP CRM - Applications and Customizing</td>
<td>TCRM10 and TCRM20</td>
<td>9.150 € + VAT 450 €</td>
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</tr>
<tr>
<td>Exam Fee</td>
<td></td>
<td>400 € + VAT 190 €</td>
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<td><strong>Total Price</strong></td>
<td></td>
<td><strong>9.550 € + VAT 640 €</strong></td>
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The course covers the theoretical contents of SAP’s in-house trainings TCRM10 and TCRM20. That means that after the e-learning course at erp4students, participants are prepared for the official SAP CRM certification exam. The exam called „SAP Certified Application Associate - CRM Fundamentals with SAP CRM 7.3” (C_TCRM20_73) can be booked directly after the course. Participants will gain a profound practical knowledge of how to use the CRM system, how to work in connection to an ERP system, how the middleware works, and how to customize the CRM system according to a company’s needs. Please see below for further information on the course contents and the certification exam.

ABAP Programming

<table>
<thead>
<tr>
<th>erp4students Course</th>
<th>equal course at SAP Education</th>
<th>Price at SAP for non-students</th>
<th>Fee at erp4students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction to ABAP</td>
<td>TAW10</td>
<td>6.900 € + VAT 450 €</td>
<td>450 €</td>
</tr>
<tr>
<td>Advanced ABAP Programming</td>
<td>TAW11E &amp; TAW12</td>
<td>6.775 € + VAT 450 €</td>
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<tr>
<td>Exam Fee</td>
<td></td>
<td>400 € + VAT 190 €</td>
<td>190 €</td>
</tr>
<tr>
<td><strong>Total price</strong></td>
<td></td>
<td><strong>14.075 € + VAT 1.090 €</strong></td>
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</table>

„Introduction to ABAP“ is the first of two consecutive courses in this area of study. The second course is called „Advanced ABAP Programming“. Upon finishing both courses, participants will be prepared for the official SAP consultant certification C_TAW12_740.

SAP S/4HANA Customizing

<table>
<thead>
<tr>
<th>erp4students Course</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction SAP S/4HANA Customizing</td>
<td>450€</td>
</tr>
<tr>
<td>Advanced SAP S/4HANA Customizing</td>
<td>450€</td>
</tr>
<tr>
<td><strong>Total price</strong></td>
<td><strong>900€</strong></td>
</tr>
</tbody>
</table>

The customization of an S/4HANA system is an essential part of the implementation process. SAP S/4HANA is a standard software, which means that it is delivered without being adjusted to the customer’s needs, his business processes or his enterprise structure. All these things, however, need to be set in the software, in order to make the system fit the customer’s needs perfectly. Students of „SAP S/4HANA Customizing“ will be dealing with an exemplary implementation scenario and thus acquire important skills in this area.

The given rates are only available for students. We can offer the courses at these rates due to our cooperation with SAP University Alliances and SAP Next-Gen.
SAP ENTERPRISE RESOURCE PLANNING WITH SAP S/4HANA
Enterprise Resource Planning, or in short ERP, is a standard software for any business around the world. ERP systems help to organise big amounts of data and plan enterprise resources most efficiently. All of the business processes within an organization, such as controlling, human resources, manufacturing, supply chain management, project management etc., can be controlled via an ERP system. It depends on the kind of organisation which functional areas are needed and, thus, what kind of requirements have to be satisfied. However, to meet an ERP system in a future job in any kind of organisation is more than likely. SAP being the world market leader in this area of enterprise software, SAP S/4HANA is the most prevalent ERP system there is.

The erp4students course Enterprise Resource Planning with SAP S/4HANA (TS410) functions as the perfect introduction into the “SAP-universe”. Not only does it present the setup and functions of the SAP S/4HANA system theoretically, complex case studies also help the participants to gain a profound practical understanding of the system. This, in the end, helps to quicker understand the ERP system of a future employer and, thus, makes an application strike out.

TS410 Consultant Certification at SAP

erp4students offers participants of the course „Enterprise Resource Planning with SAP S/4HANA (TS410)” to take the official SAP certification exam. Due to the kind sponsorship of SAP University Alliances, the exam can be taken at a special student rate. It is a three hour, computer-based multiple choice test which covers the theoretical contents of the course. The exam can be done online from home. The certificate exam, which takes three hours, is carried out on a computer and is a knowledge test comprising 80 multiple choice questions. Upon passing the exam, participants will receive the official SAP consultant certificate C_TS410_1709: „SAP Certified Application Associate - Business Process Integration with SAP S/4HANA 1709”. This certificate is recognized as a worldwide standard in all industrial sectors.

<table>
<thead>
<tr>
<th>Course at erp4students</th>
<th>Equivalent course at SAP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enterprise Resource Planning with SAP S/4HANA (TS410)</td>
<td>TS410</td>
</tr>
<tr>
<td>SAP Consultant Certification Exam: C_TS410_1709</td>
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</table>

Course: Enterprise Resource Planning with SAP S/4HANA (TS410)

This course focuses on the topic of Enterprise Resource Planning (ERP). For the practical implementation of the content, the newest solution of the world market leader in the field of business software – SAP S/4HANA – is used.

SAP ERP is currently the most commonly used standard operating software worldwide. With S/4HANA, however, the successor based on the SAP HANA database is already in the starting blocks. This course aims to prepare students for current and future challenges in dealing with this complex subject area. The SAP S/4HANA enterprise software provides a comprehensive insight into the theoretical foundations of Enterprise Resource Planning and shows the decisive innovations in the S/4HANA system.

Using case studies on integrated business processes, which the students actively carry out in an S/4HANA system, the theoretical knowledge is then practically implemented and deepened. The theoretical basis and the case studies cover practically the entire range of core areas (ECC) of the S/4HANA systems. As a result, participants in this course will gain a comprehensive overview of the functional areas of the S/4HANA system: Logistics (LO), Financial Accounting (FI), Controlling (CO) and Human Capital Management (HCM).

For accessing the SAP system, SAP’s next-generation user interface FIORI UX is used. Students will become acquainted with the new architecture, design and mode of operation of this innovative UI. In addition,
integration points to SAP Hybris (CRM), SAP Ariba (Procurement), and SAP Success Factors (HR) are presented.

The participants are furthermore also prepared for the original certificate exam of SAP’s own course TS410. Participants can take the SAP Consultant Certificate Exam (C_TS410_1709) after completing the course.

**Learning Targets**

After completion of the course, the students will have a comprehensive theoretical and practical knowledge of the SAP S/4HANA system based on practical experience and extensive explanations of the individual S/4HANA functional modules. This refers in particular to technical aspects, the organizational structure and the integration of a large number of business processes and functional areas.

The practical work on the business process scenarios presented in the integrated case studies enables the course participants to understand the function of SAP S/4HANA fundamentally. This gives the participants the skills to familiarize themselves quickly with any unknown SAP S/4HANA systems later in their career. When completing the course, the participants specifically have the skills and knowledge of the following functions and their integration within complex business processes:

- **Logistics**
  - Purchasing
  - Inventory Management
  - Warehouse Management
  - Production Control
  - Sales and Distribution
  - Plant Maintenance
  - Project Management

- **Accounting**
  - Financial Accounting
  - Controlling

- **Human Capital Management**

**Course Structure**

- Purchase-to-Pay Business Process
- Make-to-Order Business Process
- Order-to-Cash Business Process
- Human Capital Management
- Financial Accounting
- Management Accounting
- Enterprise Asset Management
- Project Management

**Important Information in brief**

- **Total Workload:**
  - 150 - 180 hours / 6 ECTS
- **Language:** English
- **System requirements:** PC with internet access
- **Course runtime:** 3 ½ months
- **Course certificate:**
  - Certificate of the Brandenburg University of Applied Sciences when all case studies are completed successfully
  - Original SAP certificate „SAP Certified Application Associate - Business Process Integration with SAP S/4HANA 1709“ if certification exam is passed
- **Course fee:** 400 €
- **Exam fee:**
  - Austria/Germany: 150 €
  - Switzerland: 190€
  - Other European Countries: 99 € + VAT*

*Note: SAP CERTIFICATION for students is only available to current students of third level academic institutions. SAP will ask you for a matriculation document issued by the academic institution. Here you find the technical requirements for the exam.*
SAP BUSINESS WAREHOUSE ON HANA
ERP4Students SAP BW on HANA

SAP Business Warehouse

SAP is the world’s leading provider of enterprise software and therefore also crucial in the area of business warehouse applications. Particularly, SAP Business Warehouse is by far the fastest growing and most prestigious area in the SAP product market. Following the acquisition of Business Objects in 2007, SAP significantly increased its influence in the BW environment and held 13.3% of business warehouse solutions’ market share two years later. In 2011, SAP’s market share was nearly twice as high at 23%. In 2011, SAP also launched the first version of SAP HANA which was initially conceived as a data mart solution (an extract or a copy of a partial data within a data warehouse). The core of SAP HANA consists of an in-memory database that uses the much faster RAM of the computer for data storage. That process enables higher performance, which is particularly noticeable when it comes to the evaluation and processing of large amounts of data. Especially, in the context of big data and Industry 4.0, the development of HANA database technology plays a decisive role. SAP Business Warehouse is the basis for many analytical processes within a company’s everyday processes, e.g. in the area of controlling or reporting; in other words, in areas where a lot of data is to juggle. However, many companies are also increasingly using BW applications in departments such as marketing, purchasing, and/or sales. This means that the operation of BW software is not exclusively reserved for senior management. More and more employees in companies work now with BW software (or have to). Through targeted BW-on-HANA migration significant improvements in data storage, data modelling, and data architecture can be achieved now. In addition, as corporate strategies are increasingly linked with day-to-day operations of a business, BW (on HANA) applications can help to optimize processes by saving costs and streamlining operations. A well-founded education and practical experience gained with SAP BW (on HANA) during your studies will therefore impress most employers as a valuable addition to your other skills. Thus, expertise in SAP BW (on HANA) undoubtedly will increase your chances in an application process.

SAP BW on HANA Consultant Certification

ERP4Students offers three courses in the field of SAP BW on HANA which have to be taken consecutively. Together, these three courses cover the theoretical contents of the SAP-own BW program (consisting of five courses) and, thus, prepare participants for the official SAP BW consultant certification.

- SAP BW on HANA - Dataflow and Business Objects Analysis
- SAP BW on HANA - Data Acquisition and Business Objects Reporting
- SAP BW on HANA - Data Modelling and Business Objects Applications Design

The contents of these courses are completely compatible with the corresponding SAP in-house trainings, as you can see in the chart below. That means, in case you cannot finish the BW program at ERP4Students during your time at university, you can still take those in-house courses which you are missing directly at SAP, and then go for the SAP BW certification.

After each one of the ERP4Students courses, a certificate from the Brandenburg University of Applied Sciences is issued that states the practical work on the system, the course’s contents and the workload of 150 - 180 hours (6 ECTS).

Participants are offered the chance of taking the official SAP certification exam. The exam can be done online from home. After passing the exam, the official SAP consultant certificate (C_TBW50H_75) is issued. As a result of our cooperation with SAP University Alliances and SAP Next-Gen we are able to offer the exam at special rates for students.

<table>
<thead>
<tr>
<th>Courses at ERP4Students</th>
<th>Equivalent Courses at SAP</th>
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<tbody>
<tr>
<td>SAP BW on HANA - Dataflow and BusinessObjects Analysis</td>
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</tr>
<tr>
<td>SAP BW on HANA - Data Modelling and BusinessObjects Applications Design</td>
<td>BW330H</td>
</tr>
<tr>
<td>SAP Consultant Certification Exam: C_TBW50H_75</td>
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</table>
Course: SAP BW on HANA - Dataflow and BusinessObjects Analysis

The course introduces SAP’s market leading Data Warehousing solution SAP NetWeaver BW 7.5 on HANA.

As a first step, the theoretical basics of the SAP BW on HANA system are introduced. Connected to this theoretical introduction, the acquired knowledge is applied practically to a living SAP system by solving case studies. The case studies are performed in an SAP education system. The used IDES (Internet Demonstration and Evaluation System) represents a fully developed model enterprise. It is based on the standard SAP ERP system and offers the corporate structure and the data basis to accomplish extensive analyses in the SAP BW system.

The participants learn how to work with the SAP BW on HANA system using the user interfaces SAP GUI and SAP HANA Studio.

The course consists of two parts: In the first part, the basic setup of SAP BW on HANA is introduced. Following this step, the data- and information structure in the BW system are illustrated and with the help of that, students are asked to independently work on a model scenario. One emphasis in this part is the modeling of dataflows within the BW-system (ETL-Process) and data acquisition from SAP source systems. Every chapter offers theoretical knowledge about a certain part of the BW system. The BW objects that are looked upon are then being introduced and illustrated. In addition to that, the native modeling capabilities of SAP HANA are introduced. The acquired knowledge is engrossed by working on case studies. Thus, students not only gather a profound overview on setup and functionality of the BW system and its integration with the SAP ERP system (or operative systems of third-party providers). They also gain respective practical experience in working with the software.

The second part of the course focuses on the analysis of data. First, the basics of creating reports (queries) using characteristics, key figures, hierarchies, and variables are presented and explained. Based on the data and structures that were generated by the course participants in the first part of the course, own reports and analyzes are created in the BW system. Additionally, students will perform analyzes in Excel-based SAP BusinessObjects Analysis.

Learning Targets

After the course, students possess profound theoretical knowledge of the SAP BW on HANA system, its technical aspects and the setup of the underlying data model, as well as approaches to define analyses and reports.

Course participants, in the end, are capable to orient themselves in an SAP BW on HANA system. They will have acquired knowledge and skills in the following areas:

- Basics and Architecture of SAP HANA and SAP BW on HANA
- Data Models and Data Structures in SAP BW on HANA
- Data Acquisition and Dataflow in SAP BW on HANA
- Administration of SAP BW on HANA
- Native Modeling in SAP HANA
- Query Design in SAP BW on HANA
- SAP BusinessObjects Analysis (Excel- and OLAP-Client)

Students learn to work with different functional components of the SAP BW on HANA system and its integration into complex business scenarios by first getting to know the relevant theory which in a second step is practically applied to the system. Thus, students understand the functions of the SAP BW on HANA system in a way that enables them to quickly work their ways into the specific environment of a foreign SAP BW on HANA system.
Course Structure

• Part I: SAP BW on HANA – Enterprise Data Warehousing
- Basics of SAP HANA and SAP BW on HANA
- Data Models in SAP BW on HANA (InfoObjects, InfoProvider)
- Data Acquisition from SAP Source Systems
- Dataflows in SAP BW on HANA (Extraktion, Transformation, Loading)
- Administration of Data Targets (InfoProvider Administration, Process Chains, Delta Merge)
- Native Modeling in SAP HANA (Information Views)
- Open ODS Views

• Part II: SAP BW on HANA – Query Design and Analysis
- Introduction to BEx Query Designer
- Navigation in Queries
- Key Figures
- Characteristics
- Structures
- Hierarchies
- Variables
- Exceptions and Conditions
- Reprot-to-Report-Interface
- Administration of Query Objects
- Query Performance Optimization
- SAP BusinessObjects Analysis (Excel- and OLAP-Client)

Important Information in brief

• Total workload:
  - 150 - 180 hours / 6 ECTS
• Language: English
• System requirements:
  - Microsoft Windows (Mac users need a Windows installation on Virtual Machine: free trial versions of VM software is available on the website of various vendors)
  - Recommended: Microsoft Office
  - At least 2 GB free hardware space
  - Internet Access
• Other requirements: For participants without knowledge of SAP ERP we urgently suggest the previous or parallel participation in the course „Enterprise Resource Planning with SAP S/4HANA (TS410)“.
• Course certificate:
  - Certificate of the Brandenburg University of Applied Sciences when all case studies are completed successfully in SAP BW during the course
• Course fee: 450 €
Course: SAP BW on HANA - Data Acquisition and BusinessObjects Reporting

The course deals with SAP’s market leading Data Warehousing solution SAP NetWeaver BW 7.5 on HANA.

This course deals primarily with data acquisition in SAP BW on HANA. The contents of the course SAP BW on HANA - Data Flow and BusinessObjects Analysis are prerequisite to this course.

As a first step, the theoretical basics of the SAP BW on HANA system are introduced. Connected to this theoretical introduction, the acquired knowledge is applied practically to a living SAP system by solving case studies. The case studies are performed in an SAP education system. The used IDES (Internet Demonstration and Evaluation System) represents a fully developed model enterprise. It is based on the standard SAP ERP system and offers the corporate structure and the data basis to accomplish extensive analyses in the SAP BW system.

The participants learn how to work with the SAP BW-on-HANA system using the user interfaces SAP GUI and SAP HANA Studio. For SAP BusinessObjects several Reporting Tools are provided.

The course consists of two parts: In the first part of the course the participants will deal with the different possibilities of extracting data from different source systems into the SAP BW on HANA system in order to make them available to downstream processes and analyzes.

Initially, the focus is on SAP’s own source systems (for example, SAP ERP) and the interfaces provided for this purpose, SAP Service API (SAPI) and Operational Data Provisioning (ODP). The participants will create their own DataSources in the SAP source system, replicate metadata in SAP BW and extract the data to SAP BW. In addition, SAP HANA’s own interfaces for data acquisition (Smart Data Integration) and real-time data acquisition will be presented. Subsequently, the focus will be on further data extraction methods and interfaces of SAP BW on HANA. Here the interfaces File, DB Connect, Universal Data Integration, Web Service and Staging BAPI are presented and used. Another aspect of data retrieval is Delta Management in SAP BW on HANA, which is explained and used for the different data acquisition methods.

Finally, the Open Hub Destination – an interface that allows data to be sent from SAP BW to downstream systems – is introduced.

The second part of the course deals with different tools of the SAP BusinessObjects product portfolio. First of all, the Information Design Tool for the creation of data universes as the basis for analyzes and reports is discussed. Afterwards, the BusinessObjects Reporting tools BI Launch Pad, Explorer, Web Intelligence and Crystal Reports are dealt with.

Learning Targets

After the course, students possess profound theoretical knowledge of the SAP BW on HANA system, its technical aspects and the setup of the underlying data model, as well as approaches to define analyses and reports.

Course participants, in the end, are capable to orient themselves in an SAP BW on HANA system. They will have acquired knowledge and skills in the following areas:

- Data Acquisition from SAP Source Systems
- Data Acquisition from non-SAP Systems
- Delta Management
- Real-time Data Acquisition
- Open Hub Destination
- SAP BusinessObjects Universe Design
- SAP BusinessObjects Reporting

Students learn to work with different functional components of the SAP BW on HANA system and its integration into complex business scenarios by first getting to know the relevant theory which in a second step is practically applied to the system. Thus, students understand the functions of the SAP BW on HANA system in a way that enables them to quickly work their ways into the specific environment of a foreign SAP BW on HANA system.
**Important Information in brief**

- **Total workload:**
  - 150 - 180 hours / 6 ECTS
- **Language:** English
- **System requirements:**
  - Microsoft Windows (Mac users need a Windows installation on Virtual Machine: free trial versions of VM software is available on the website of various vendors)
  - At least 4 GB free hardware space
  - Internet Access
- **Other requirements:**
  - For participants without knowledge of SAP ERP we urgently suggest the previous or parallel participation in the course „Enterprise Resource Planning with SAP S/4HANA (TS410)“.
  - For participants without knowledge of SAP ERP we urgently suggest the previous or parallel participation in the course „SAP BW on HANA – Dataflow and BusinessObjects Analysis“

**Course Structure**

- **Part I: SAP BW on HANA – Data Acquisition**
  - Data Acquisition with SAP BW Service-API
  - Data Acquisition with SAP BW Operational Data Provisioning
  - SAP HANA Smart Data Integration (SDI) and System Landscape Transformation (SLT)
  - Delta Management
  - Real-Time Data Acquisition
  - File-Interface
  - DB Connect
  - Universal Data Integration
  - Web Services
  - Staging-BAPI
  - Open Hub Destination

- **Part I: SAP BW on HANA – BusinessObjects Reporting**
  - SAP BusinessObjects Information Design Tool
  - SAP BusinessObjects BI LaunchPad
  - SAP BusinessObjects Explorer
  - SAP BusinessObjects WebIntelligence
  - SAP BusinessObjects Crystal Reports

**Course certificate:**
- Certificate of the Brandenburg University of Applied Sciences when all case studies are completed successfully in SAP BW during the course

**Course fee:** 450 €
Course: SAP BW on HANA - Data Modelling and BusinessObjects Applications

The course deals with SAP’s market leading Data Warehousing solution SAP NetWeaver BW 7.5 on HANA.

This course deals primarily with data modeling in SAP BW on HANA. The contents of the courses SAP BW on HANA - Data Flow and BusinessObjects Analysis as well as SAP BW on HANA – Data Acquisition and BusinessObjects Reporting are prerequisite to this course.

As a first step, the theoretical basics of the SAP BW on HANA system are introduced. Connected to this theoretical introduction, the acquired knowledge is applied practically to a living SAP system by solving case studies. The case studies are performed in an SAP education system. The used IDES (Internet Demonstration and Evaluation System) represents a fully developed model enterprise. It is based on the standard SAP ERP system and offers the corporate structure and the data basis to accomplish extensive analyses in the SAP BW system.

The participants learn how to work with the SAP BW-on-HANA system using the user interfaces SAP GUI and SAP HANA Studio. For SAP BusinessObjects several Design Tools are provided.

The course consists of three parts: In the first part of the course, the participants deal with SAP’s own enterprise data warehousing architecture for the implementation of SAP BW systems and projects: the LSA (Layered Scalable Architecture) and its renewal for SAP BW on HANA, the LSA++. Based on this, important aspects of SAP BW projects are explained and a logical as well as BW model is created for an integrated scenario.

The second part of the course deals with Physical Modeling in SAP BW on HANA. The previously developed logical models are transferred to InfoObjects, InfoProviders and Information Views. The focus here is on the optimal design of the data models to meet a given requirement.

In the third part of the course participants will build Analytical Applications on top of the previously created data models using the SAP BusinessObjects tools SAP BO Lumira and SAP BO Design Studio. Furthermore, Data Mining and Analysis capabilities of SAP BW are examined using SAP BW Analysis Process Designer.
Learning Targets

After the course, students possess profound theoretical knowledge of the SAP BW on HANA system, its technical aspects and the setup of the underlying data model, as well as approaches to define analyses and reports.

Course participants, in the end, are capable to orient themselves in an SAP BW on HANA system. They will have acquired knowledge and skills in the following areas:

- Basics of Data Modeling
- Layered Scalable Architecture++
- SAP BW Projects and Logical Modeling
- Physical Modeling in SAP BW on HANA and SAP HANA
- SAP BW Analysis Processes
- SAP BusinessObjects Design Studio
- SAP BusinessObjects Lumira

Students learn to work with different functional components of the SAP BW on HANA system and its integration into complex business scenarios by first getting to know the relevant theory which in a second step is practically applied to the system. Thus, students understand the functions of the SAP BW on HANA system in a way that enables them to quickly work their ways into the specific environment of a foreign SAP BW on HANA system.
## Course Structure

- **Part I: SAP BW on HANA – Projects and Modeling**
  - Basics of Data Modeling
  - Layered Scalable Architecture++
  - SAP BW Projects
  - Logical Model
  - BW Model
  - BI Content

- **Part II: SAP BW on HANA – Physical Modeling**
  - Physical Modeling in SAP BW on HANA
  - Physical Modeling in SAP HANA
  - Mixed Scenarios in SAP BW on HANA

- **Part III: SAP BW on HANA – Application Design**
  - SAP BW Analysis Process Design
  - SAP BusinessObjects Design Studio
  - SAP BusinessObjects Lumira

## Important Information in brief

- **Total workload:**
  - 150 - 180 hours / 6 ECTS
- **Language:** English
- **System requirements:**
  - Microsoft Windows (Mac users need a Windows installation on Virtual Machine: free trial versions of VM software is available on the website of various vendors)
  - At least 4 GB free hardware space
  - Internet Access
- **Other requirements:**
  - For participants without knowledge of SAP ERP we urgently suggest the previous or parallel participation in the course „Enterprise Resource Planning with SAP S/4HANA (TS410)“.
  - For participants without knowledge of SAP ERP we urgently suggest the previous or parallel participation in the course „SAP BW on HANA – Dataflow and BusinessObjects Analysis“ as well as „SAP BW on HANA – Data Acquisition and BusinessObjects Reporting“
- **Course certificate:**
  - Certificate of the Brandenburg University of Applied Sciences when all case studies are completed successfully in SAP BW during the course
  - Original SAP consultant certificate C_TBW50H_75 if certification exam is passed
- **Course fee:** 450 €
SAP CUSTOMER RELATIONSHIP MANAGEMENT
Customer Relationship Management has become a crucial part of any successful business. On the one hand CRM means a technological component – a software – that is capable of executing all necessary business processes in the area of marketing, sales and service. On the other hand CRM is becoming a strategy – not to say a philosophy – more and more. It is not only the cheapest price of a product that satisfies a customer. Good marketing and accommodating after-sales service are also very important factors.

SAP CRM is a product that helps managing customer data. It can be customized in a way that every employee of a company has access (only) to the data relevant to him. CRM can also help developing and managing (online-) marketing campaigns: Offers can be personalised for every customer, giving him the feeling that the company really cares about him/her. Additionally, SAP CRM can be used by the complaints department. It can be connected to call-centres, so that employees have access to the relevant data of a customer while talking to him on the phone. Even field workers can make use of a CRM system by accessing relevant customer data via portable devices.

SAP CRM is, obviously, a very powerful tool that is used in many different areas throughout a company. Thus, for those that are keen on entering e.g. the areas marketing and sales, skills in working with SAP CRM are extremely valuable. Additionally, the demand for specialised CRM consultants is becoming higher and higher as well, making this a promising possibility for a future career.

SAP CRM Consultant Certification

In the area of Customer Relationship Management, erp4students offers the course “SAP CRM - Applications and Customizing”. This course covers the theoretical contents of the SAP-own CRM courses TCRM10 and TCRM20 (cf. chart below). That means that after only one e-learning course at erp4students, participants are already prepared for the official SAP CRM certification exam. Additionally, students will get to work extensively on a living CRM system.

After successfully completing the course, students are also issued a certificate of the Brandenburg University of Applied Sciences. This certificate states the workload of the course, as well as the course contents and practical work on the case studies.

The exam called “SAP Certified Application Associate CRM Fundamentals with SAP CRM 7.0” (C_TCRM20_72) requires the course content and can be done online from home.

<table>
<thead>
<tr>
<th>Course at erp4students</th>
<th>Equivalent course at SAP</th>
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</thead>
<tbody>
<tr>
<td>SAP CRM - Applications and Customizing</td>
<td>TCRM10 &amp; TCRM20</td>
</tr>
<tr>
<td>SAP Consultant Certification Exam: C_TCRM20_73</td>
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</tr>
</tbody>
</table>
Course: SAP CRM - Applications and Customizing

This course covers the topic of Customer Relationship Management (CRM) in general and the use of IT (SAP CRM), which automates, manages and improves the customer relationship management in a company.

The participants will gain in-depth knowledge of the theoretical basics of customer relationship management with SAP CRM and a broad overview of all the functions provided by the software. The course participants learn using SAP CRM and deepen their previously acquired theoretical knowledge by carrying out practical tasks directly in the SAP system. The complete spectrum of the functions of the SAP CRM system is covered with the theoretical basics and practical case studies: Basics, CRM analytics, CRM marketing, CRM sales, CRM services, Web Channel and Partner Channel Management, Interaction Center and WebClient User Interface. The course also covers the functions for customizing the core areas of the SAP CRM system. Furthermore, there is also an introduction into the technical aspects of CRM middleware.

**Learning Targets**

On completing the course, the participants will have a well-founded, theoretical knowledge of the technical aspects for the SAP CRM system, its organizational structure, and integration of a wide range of business processes and functions. They will be able to orient themselves quickly in unknown CRM systems due to the practical case studies which are part of the course.

The following SAP CRM functions are discussed in the course:

- **SAP CRM**
  - Basics
  - Analytics
  - Marketing
  - Web Channel and Partner Channel Management
  - Sales (includes SAP ERP)
  - Interaction Center
  - Services

- **SAP CRM Customizing**
  - Business Partners (includes SAP ERP)
  - Organizational Management (includes SAP ERP)
  - Product Master (includes SAP ERP)
  - Transaction Processing
  - Activity Management
  - Partner Processing
  - Actions
  - Pricing
  - Billing (includes SAP ERP)

- **CRM Middleware**
  - SAP CRM Architecture
  - Data Exchange with SAP ERP
  - SAP CRM Middleware Operations
  - Error Handling, Troubleshooting, and Data Integrity

The course participants learn the practical use of the above mentioned SAP CRM components and their integration in complex business processes by engaging with the theoretical basics, processing integrated business process scenarios and system customizing. Hence, after the course, the participants are able to understand the functions of an SAP CRM system and to familiarize themselves quickly with an unknown SAP CRM system in the future.
**Course Structure**

- SAP CRM – WebClient User Interface
- SAP CRM – Basics
- SAP CRM – Analytics
- SAP CRM – Marketing
- SAP CRM – Sales
- SAP CRM – Services
- SAP CRM – Web Channel and Partner Channel Management
- SAP CRM – Interaction Center
- SAP CRM Customizing
- CRM Middleware

**Important Information in brief**

- **Total Workload:**
  - 150 - 180 hours / 6 ECTS
- **Language:** English
- **System requirements:**
  - PC with internet access
- **Other requirements:**
  - For participants without knowledge of SAP ERP we urgently suggest the previous or parallel participation in the course “Enterprise Resource Planning with SAP S/4HANA (TS410)“
- **Course runtime:** 3 ½ months
- **Course certificate**
  - Certificate of the Brandenburg University of Applied Sciences when all case studies are completed successfully in SAP CRM during the course
  - Original SAP consultant certificate C_TCRM20_73 if certification exam is passed
- **Course fee:** 450 €
ABAP PROGRAMMING
ABAP Programming

Starting in the 1980’s and undergoing a constant development ever since, ABAP is the basis for the entire SAP system today, being used for programming the SAP Application Server. Thus, this coding language makes it possible, on the one hand, to alter SAP products to an extent that allows every business to have a uniquely customized software product in the end. On the other hand, it is used to write whole new business applications. In the future, it will especially be used for InMemory- and on Demand technologies.

The language’s syntax is comparable to COBOL but differs largely from other coding languages such as C, Java or Python. This is because ABAP is not a standardized language, which means that its one and only purpose is to be used in the SAP environment. Within this environment, however, ABAP has very powerful concepts for developing business applications, many of them specially designed for SAP ERP. Since the 1990’s ABAP is also an object-oriented coding language.

Today, when a new SAP system is implemented, customer needs are so unique and special that the usual customizing that can be done with the software often is not enough. New elements and add-ons have to be programmed in order to reflect the company’s unique business processes. Thus, ABAP is vital and essential within any implementation of a new SAP system.

Due to the large spectrum of possibilities with ABAP, the erp4students course is not designed to teach students every single command of the language. The focus rather lies on dealing with practical problems within an SAP ERP system, to use specific tools of the integrated programming environment of SAP ERP, and to understand how the language is integrated into the system in its entirety.

In the second course, participants focus on working with object-oriented concepts and adjusting SAP standard software to customer needs. They modify original code and develop browser-based application using Web Dynpro.

The erp4students area of ABAP is especially aimed at students from Informatics. This is why the courses do not explain programming itself, but using ABAP as a new coding language. For this reason, participants must have knowledge of at least one other coding language to make sure, they can follow the contents.

**SAP Consultant Certification**

“Introduction to ABAP” and “Advanced ABAP Programming” are consecutive courses and cover all theoretical contents of the SAP in-house trainings TAW10, TAW11E and TAW12 (see chart below). The courses thus prepare participants for the official consultant certification exam at SAP SE. The certification is called “C_TAW12_740: SAP Certified Development Associate - ABAP with SAP NetWeaver 7.40” and can be done online from home.

<table>
<thead>
<tr>
<th>Course at erp4students</th>
<th>Equivalent course at SAP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction to ABAP</td>
<td>TAW10</td>
</tr>
<tr>
<td>Advanced ABAP Programming</td>
<td>TAW11E &amp; TAW12</td>
</tr>
</tbody>
</table>

**SAP Consultant Certification Exam: C_TAW12_740**
Course: Introduction to ABAP

In this course, programming with the coding language ABAP is introduced and applied to the leading standard software in the field of Enterprise Resource Planning, SAP ERP. As a first step, basic concepts of ABAP are explained, and methods of developing software for SAP ERP are introduced. Further contents of the course are ABAP’s powerful Typeconcept, the modularization of programs, working with databases and especially the different possibilities of designing and customizing interfaces.

The contents are presented by using examples which have to be programmed by the participants directly on the system. Conclusively, the gained knowledge is further strengthened by solving a complex case study in a less guided way of teaching. An outlook on ABAP objects rounds off the course.

Learning Targets

The course participants gain a basic knowledge of the coding language ABAP, its theoretical concepts and structure. They get to know the developing tools of the SAP ERP system and learn to use those for further software development.

After the course, students will be able to develop, maintain and advance software components in complex ERP environments. They will learn to handle complex problems and tasks, just like they could occur in a future job.

Buy working on the course, students will understand the process of developing software within an SAP ERP system. Due to the parallel work of several developers at the same time, this gains a special kind of complexity. Thus, course participants are being prepared for the practical use of ABAP as programmers, software engineers or in the context of different demanding tasks within an SAP ERP environment.

Course Structure

- ABAP: Basic Concepts
- Data Dictionary
- Data Bases
- List Processing
- Interface Elements / Dynpros
- Case Study
- Outlook on ABAP Objects

Important Information in brief

- Total Workload:
  - 150 - 180 hours / 6 ECTS
- Language: English
- System requirements:
  - PC with internet access
  - MS Internet Explorer
- Other requirements:
  - For participants without knowledge of SAP ERP we urgently suggest the previous or parallel participation in the course „Enterprise Resource Planning with SAP S/4HANA (TS410)“
  - All participants must have a basic knowledge of at least one coding language (e.g. Java)
- Course certificate
  - Certificate of the Brandenburg University of Applied Sciences after the case study was completed successfully during the course.
- Course fee: 450 €
Course: Advanced ABAP Programming

In this course, advanced concepts of the coding language ABAP are introduced. In a first step, the necessary theoretical concepts of ABAP are laid out, followed by practical programming exercises on the living SAP system.

The programming exercises are performed on an SAP system for training purposes. In this system, a big amount of exemplary data is already integrated and can be used for the exercises. This way, own programs can be tested easily and without unnecessary and time-consuming effort. Aside from guided exercises, in which the fundamental workflow is practiced, there is a second form of case studies in which the students have to apply the concepts of the course independently.

In the course, the students will be confronted with three major topics:

- Getting to know object oriented concepts and their execution in ABAP; Intense practical application of the new knowledge by developing new programs and testing them in the SAP training system.
- Customizing of SAP standard products according to customer needs: Modification of original code from accessible dictionary elements as well as from elements of the programs’ user interface by using different techniques.
- Developing modern browser-based applications by using Web Dynpro. Additionally, the course covers the following aspects: ALV Grid Control, Event Handling, Unicode and dynamic programming.

Learning Targets

After the course, the participants will have gained theoretical knowledge as well as practical experiences concerning object oriented concepts of ABAP. Students will be able to develop object oriented programs and to customize existing SAP products according to customer needs. Most importantly, students will not only gain skills to solve the case studies of the course, but to choose and apply adequate methods to solve future problems independently. Additionally, participants will be able to develop internet-based applications by using Web Dynpro techniques. They will know ALV Grid Control, will be able to produce complex interfaces for their programs, have knowledge about Unicode and will have acquired practical skills in using methods of dynamic programming.

Course Structure

- Part 1: Object oriented Programming with ABAP
  - Basics of object orientation
  - Heredity, Casting and Interfaces
  - Object oriented event concept
  - Object oriented repository objects
  - Class-based exceptions
  - Shared objects

- Part 2: Customizing of SAP standard applications
  - Extension to dictionary elements
  - Customer exits
  - Business Add Ins (BAdIs)
  - Modifications
  - New extension possibilities

- Part 3: Web-based application with Web Dynpros
  - Basics of Web Dynpro techniques
  - Controller
  - Context
  - Interface definition
  - Programming of the application logic
  - Internationalisation

- Part 4: Further concepts
  - ALV Grid Control and event processing
  - Unicode
  - Dynamic programming
Important Information in brief

- **Total Workload:**
  - 150 - 180 hours / 6 ECTS

- **Language:** English

- **System requirements:**
  - PC with internet access
  - 700 MB storage
  - MS Internet Explorer

- **Other requirements:**
  - For participants without knowledge of SAP ERP we urgently suggest the previous or parallel participation in the course „Enterprise Resource Planning with SAP S/4HANA (TS410)“
  - For participants without knowledge of ABAP we urgently suggest the previous or parallel participation in the course „Introduction to ABAP“
  - All participants must have a basic knowledge of at least one coding language (e.g. Java)

- **Course certificate**
  - Certificate of the Brandenburg University of Applied Sciences after the case studies were completed successfully during the course
  - Original SAP certificate C_TAW12_740 if SAP certification exam was passed successfully

- **Course fee:** 450 €
SAP S/4HANA CUSTOMIZING
SAP S/4HANA Customizing

SAP software products are delivered as standard software. This means that any on-premise software product that is to be implemented in a business has to be adjusted to the specific needs of the customer. This process is called Customizing.

During implementation of an SAP S/4HANA system, the software must be set in a way that mirrors the individual business processes of the company, as well as the company structure – meaning headquarters, branches, and affiliate companies. Often, during this process, existing software systems need to be altered or connected to the new ERP system; or individual software extensions have to be programmed (using ABAP), in order to fit the exact needs of the company. In other words, customizing is the process of adapting the SAP standard software to the requirements of a company by mapping organizational structures and processes of the company into the SAP system.

Customizing with erp4students

Customizing is an essential part of the implementation process of any SAP system. In our two courses you will focus on customizing of the world-wide leading ERP system: SAP S/4HANA. As a student enrolled in the courses Introduction to SAP S/4HANA Customizing and Advanced SAP S/4HANA Customizing you will learn how to handle a complete, end-to-end customizing process. You will customize company structures as well as business processes across several modules and departments, mapping the exact needs of a model enterprise. You will thus experience a real-life business scenario of an SAP S/4HANA implementation and customizing process. The competencies you can gather in our SAP S/4HANA Customizing module are highly valuable and useful for future SAP consultants or IT project managers.

Course: Introduction to SAP S/4HANA Customizing

This course focuses on the Customizing of an Enterprise Resource Planning (ERP) system, using the world leading standard software SAP S/4HANA. The course participants will be dealing with two implementation scenarios. In these scenarios, first, the organizational structures are implemented. Building upon that, cross-application business processes of different departments such as production, accounting/controlling and distribution/logistics are modeled. The practically relevant case studies refer to the fields of organization- and process-customizing which makes a cross-departmental view on individual business processes possible in the first place. The focus of process modeling in this course lies on the departments of production, accounting/controlling and distribution/logistics. The course also offers background information on project management regarding the implementation of standard software. This is also included in the case studies.

By practically working on the implementation of processes and their integration, the participants will develop a profound understanding of the complete implementation process as well as the interaction of organizational units, master data and process components. Thus, participants will be thoroughly prepared for their future role of project employees or end-users in the field of SAP S/4HANA.

The acquired skills can be further deepened in the course Advanced SAP S/4HANA Customizing.
Structure

• Introduction to SAP S/4HANA and the Global Bike Company
• Introduction to the SAP SAP S/4HANA Implementation Guide
• Business Scenario MEN Corp:
• Customizing of the Organizational Model in SAP S/4HANA
• Customizing of a Sales and Distribution Business Process in SAP S/4HANA
• Customizing of a Financial Accounting Business Process in SAP S/4HANA
• Customizing of a Manufacturing Process in SAP S/4HANA
• Customizing of a Controlling Process in SAP S/4HANA
• Business Scenario WOMEN Corp (self-contained work):
• Case Study: Customizing of a comprehensive Business Scenario

Important Information in brief

• Total Workload:
  ◦ 150 - 180 hours / 6 ECTS
• Language: English
• System requirements:
  ◦ PC with internet access
• Other requirements:
  ◦ For participants without knowledge of SAP ERP we urgently suggest the previous or parallel participation in the course „Enterprise Resource Planning with SAP S/4HANA (TS410)“
• Course runtime: 3 ½ months
• Course certificate
  ◦ Certificate of the Brandenburg University of Applied Sciences when all case studies are completed successfully during the course
• Course fee: 450 €

Learning Targets

After finishing the course, participants will have acquired a fundamental theoretical knowledge of the SAP S/4HANA system and especially on organization- and process-customizing of the SAP system. This is assured by the profoundly described process components and their integration in the SAP S/4HANA system. Participants will also be able to adapt to and orient themselves in any given SAP S/4HANA system. They will especially acquire skills concerning the concrete implementation of SAP S/4HANA software. A focus lies on the fields of production, accounting/controlling and distribution/logistics.

• Introduction and Configuration of SAP Fiori UX
• Introduction to the SAP S/4HANA Implementation Guide
• Customizing of the SAP S/4HANA Organizational Model
• Customizing of a Sales and Distribution Business Process in SAP S/4HANA
• Customizing of a Financial Accounting Business Process in SAP S/4HANA
• Customizing of a Controlling Process in SAP S/4HANA
• Customizing of a Manufacturing Process in SAP S/4HANA
• Case Study: Customizing of a comprehensive Business Scenario (self-contained work)
  ◦ Customizing of the Organizational Model
  ◦ Customizing of a complete Order-to-Cash Business Process
  ◦ Test of Customized Business Process
Course: Advanced SAP S/4HANA Customizing

This course deals with advanced Customizing techniques for the leading standard Enterprise Resource Planning solution – SAP S/4HANA. Based on an all-encompassing implementation scenario that you will carry out actively in the system, a wide range of SAP S/4HANA organizational units and the entire organizational structure of the company will be created in the SAP system. Furthermore, you will customize own master data and map a detailed business process in the system to accomplish an end-to-end business scenario spanning the following applications: Production, Accounting, Logistics/Sales and Distribution, as well as Human Resources. Additionally, you will become acquainted with the customizing of own reports in conjunction with a variety of tools provided by SAP S/4HANA. The case studies are completed by in-depth theoretical foundation on the SAP Implementation Guide (IMG) and IMG projects as well as the client concept, Change and Transport Management, as well as the authorization concept of SAP systems.

Learning Targets

Based on the knowledge acquired in the course Introduction to SAP S/4HANA Customizing you will apply advanced techniques in order to customize an End-to-End Business Process including detailed settings of a variety of process steps. The goal of this course is to provide students with in-depth knowledge of Customizing techniques in SAP S/4HANA, including:

- Client concept, Change and Transport Management
- Authorization concept of SAP Systems
- Maintaining and Managing own IMG Projects
- Customizing of the Organizational Model
- Customizing of Master Data
- Customizing of a detailed and all-encompassing End-to-End Business Process
- Error-handling and dealing with incomplete Customizing settings
- Customizing of own Reports

By practically working on the implementation of processes and their integration, the participants will develop an in-depth understanding of the complete implementation process on all of the four SAP S/4HANA concept levels: organizational units, master data, process, and reporting. Thus, participants will be thoroughly prepared for their future role of project employees or end-users in the field of SAP S/4HANA.

This course requires that you have successfully accomplished the course Introduction to SAP S/4HANA Customizing and that you fully comprehend the content within the course.

Structure

- Theoretical foundation of Enterprise Applications, including:
  - Solution Manager
  - SAP NetWeaver
  - SAP S/4HANA
  - SAP Fiori UX
- SAP S/4HANA Implementation Guide
  - Client concept, Change and Transport Management
  - Authorization concept of SAP Systems
  - Maintaining and Managing own IMG Projects
  - Client-specific and cross-client Customizing
- Customizing of the Organizational Model in SAP S/4HANA
- Customizing of Master Data in SAP S/4HANA
- Customizing of an integrated End-to-End Business Process in SAP S/4HANA, including:
  - Account assignment
  - Pricing
  - Order-to-Cash
  - Shop floor control
  - Material management
  - Procurement
  - Delivery
  - Billing and Payment
  - Profit Center Accounting and Profitability Analysis
  - Error handling and dealing with incomplete customizing settings
- Customizing of Reporting Solutions in SAP S/4HANA, including:
  - Quick Viewer
  - SAP Queries and InfoSet Queries
  - Report Writer and Report Painter
- Enhancing your Customizing solution with a (relatively small) scenario which must be solved independently by the student.
Important Information in brief

- Total Workload:
  - 150 - 180 hours / 6 ECTS
- Language: English
- System requirements:
  - Internet access
  - Microsoft Windows or Mac
- Other requirements:
  - This course requires that you have successfully accomplished the course „Introduction to SAP S/4HANA Customizing“ and that you fully comprehend the content within the course. Participants without knowledge of SAP S/4HANA Customizing have to participate previously or in parallel in the course „Introduction to SAP S/4HANA Customizing“.
- Course runtime: 3 ½ months
- Course certificate:
  - Certificate of the Brandenburg University of Applied Sciences when all case studies are completed successfully during the course
- Course fee: 450 €
About Us

The foundation of erp4students lies within the broad experience of the chair of Information Systems for Production and Operations Management (WIP) at the University of Duisburg-Essen, Germany: The chair of Prof. Dr. Heimo H. Adelsberger is mainly responsible for the development of the courses. Professor Adelsberger’s teaching experience in the area of integrated information systems goes back more than 30 years: He was professor for „Computer Science and Industrial Engineering“ at Texas A&M University, professor for „Datamatintegrerede Informations-systemer“ at the Technical University of Denmark in Copenhagen, and for 20 years professor and chair for „Information Systems for Production and Operations Management“ at the University of Duisburg-Essen. The Chair has been one of the first who used SAP-software in teaching on a regular basis (starting in the mid-nineties); SAP-software related topics have since been the focus of bachelor and master theses.

Today, many previous students work for SAP SE or are consultants in the ERP field.

The experience of Professor Adelsberger’s chair lead to the e-learning-based study program VAWI (Virtueller Weiterbildungsstudiengang Wirtschaftsinformatik) developed between 2001 and 2004. After setting up a course curriculum and choosing innovative and collaborative education approaches, VAWI was established as the first internet-based advanced education program at the Universities of Duisburg-Essen and Bamberg. With currently about 500 students VAWI is the most successful internet-based university masters program in the German-speaking world.

In 2019 a close cooperation with the Brandenburg University of Applied Sciences was started. Brandenburg University of Applied Sciences was also one of the pioneering educational institutions to use SAP software in their teaching. Thanks to the experiences of Professor Franz, erp4students is given new opportunities in the context of SAP education.

Professor Franz worked as Development Manager at SAP for many years, focusing on education, development and sales. In 2004 he transferred to Brandenburg University of Applied Sciences. Mister Franz is responsible for business applications in informatics at the Chair of Economics. Professor Franz’s chair realised multiple innovative and successful projects in the area of SAP. For example:

- for 18 years the Berlin-Brandenburg SAP-Forum
- SAP Next-Gen project with the grid company Berlin-Brandenburg (NBB)
- student teams at InnoJams at TechEd in Berlin, Madrid and CeBIT in Hanover
- global train-the-trainer courses in Greece, Turkey, VAE, Saudi-Arabia, Spain and Hungary.

The goal of the cooperation is to bundle the competencies of erp4students and the university in order to reach synergy effects. Thus, both sides plan to enhance and advance the program so that future course participants enjoy an even higher quality in SAP education.

Due to students’ demands the first trial run of an SAP course was made in 2006 as part of VAWI. The students’ feedback exceeded all expectations. From there on out erp4students has been developed further and further. Today, students from over 100 nations can participate in the courses. The course program consists of 13 German courses, 9 of which are available in English. To this day, thousands of students have gained an SAP certification thanks to erp4students.
The Brandenburg University of Applied Sciences has been working in a close partnership together with SAP University Alliances and SAP Next-Gen for more than 20 years. Immediately after the initiation of the project erp4students, SAP University Alliances liked the idea of developing an e-learning offer in the field of SAP exclusively for students. When the necessary arrangements were made and erp4students was launched, it was soon declared as a pilot project by the SAP University Alliances to emphasize the exclusive value of the project. In the meantime, SAP University Alliances has turned erp4students into their strategic online partner for academic learning, benefiting all sorts of parties. Professor Adelsberger calls erp4students a „win-win-win-win-situation“:

1. for the students who are perfectly prepared for the job market after finishing studying
2. for the chair: an exemplary successful research & development project
3. for the university: one of the largest third-party funded projects of the university in fulfillment of the mission to train „employable“ students (Employability; Bologna)
4. for the SAP, because for the (and especially the new!) products accordingly well educated manpower must be present
5. for the economy, as human capital is growing significantly (short-term and long-term effects)

So clearly, erp4students holds advantages for many different sides. However, the clear focus of the program management is to provide students with the best possible SAP training they can get alongside their studies. The goal must be to make it easier for the participants to enter the job market by means of certificates in the SAP environment, thus significantly increasing their career opportunities. And all of this - thanks to the cooperation with SAP University Alliances and SAP Next-Gen - at particularly affordable and student-friendly conditions that can not be found anywhere else for non-students.

Contact

In case you have any further questions, or you want to inquire in detail about a course or the program in general, we are very happy to help you. You are welcome to visit our website, send us an email or call us directly.

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