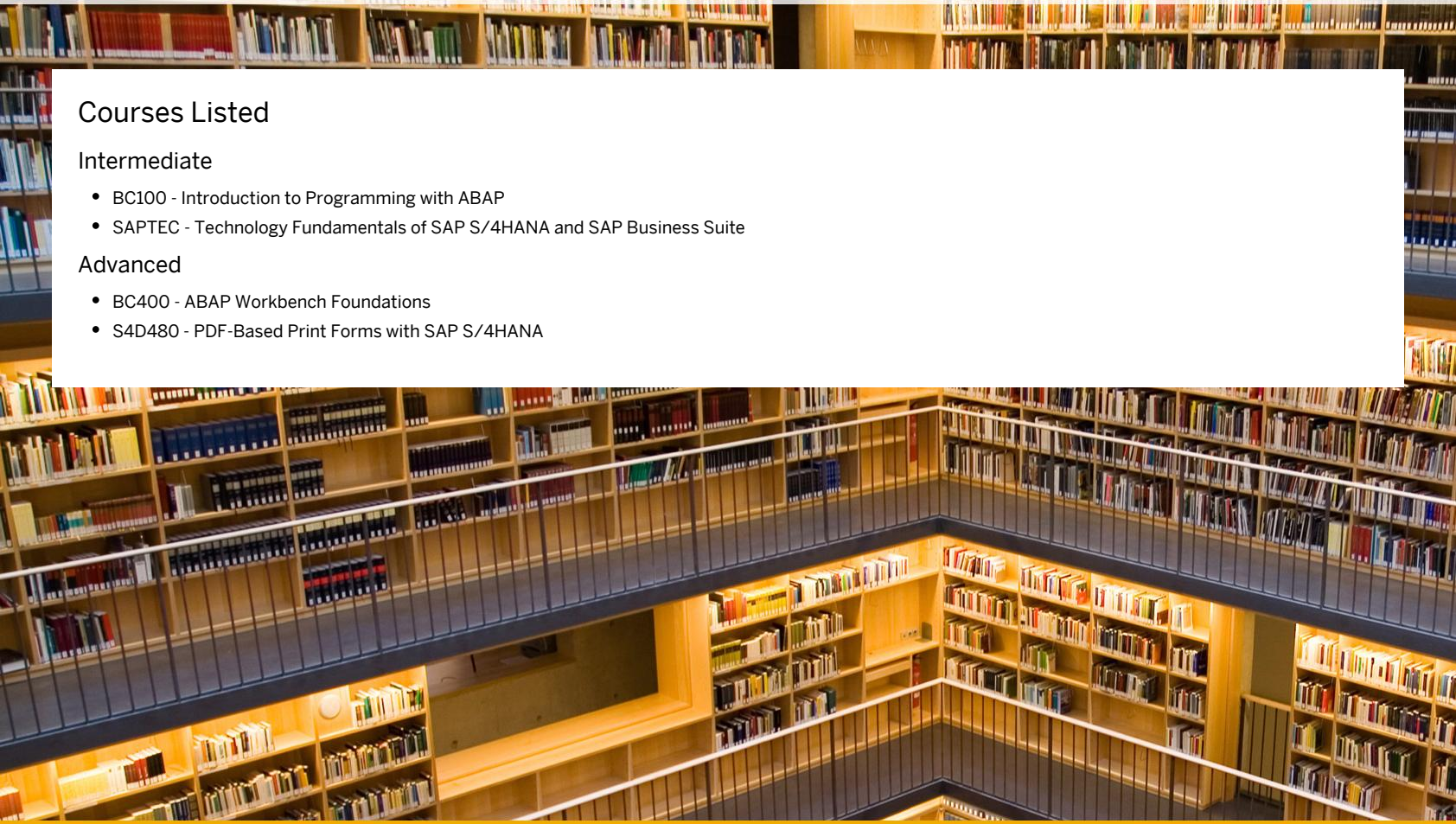
COURSE LISTING

Training for Database & Technology with Development in ABAP Creating Forms



Courses Listed

Intermediate

- BC100 - Introduction to Programming with ABAP
- SAPTEC - Technology Fundamentals of SAP S/4HANA and SAP Business Suite

Advanced

- BC400 - ABAP Workbench Foundations
- S4D480 - PDF-Based Print Forms with SAP S/4HANA

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All available schedules in your selection

BC400 ABAP Workbench Foundations

There are currently no events available for this course. Please feel free to register interest for this course on SAP Training. We will then notify you when a course has been scheduled.

S4D480 PDF-Based Print Forms with SAP S/4HANA

There are currently no events available for this course. Please feel free to register interest for this course on SAP Training. We will then notify you when a course has been scheduled.

BC100 Introduction to Programming with ABAP

There are currently no events available for this course. Please feel free to register interest for this course on SAP Training. We will then notify you when a course has been scheduled.

SAPTEC Technology Fundamentals of SAP S/4HANA and SAP Business Suite

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BC400 - ABAP Workbench Foundations

Course announcements

- This course is also available in a self-paced e-learning format with an active subscription to the SAP Learning Hub, as BC400E.
- Gain a detailed knowledge of the fundamental concepts of ABAP and learn how to comfortably and efficiently work with the ABAP Workbench tools in order to undertake custom developments with confidence

Goals

- This course will prepare you to:
- Learn the fundamental concepts of the ABAP programming language
- Efficiently use the ABAP Workbench Tools
- Create simple application programs with user dialogs (list, selection screen, screens, Web Dynpro) and database dialogs (reading from the database)

Audience

- Developer
- Developer Consultant
- Help Desk / COE Support
- Program / Project Manager

Essential

- BC100 or previous programming language experience

Course based on software release

- SAP NETWEAVER 7.50 ECC608

Content

- Flow of an ABAP Program
- Describing the Processing of ABAP Programs
- ABAP Workbench
- Introducing the ABAP Workbench
- Organizing ABAP Development Projects
- Developing ABAP Programs
- Finalizing ABAP Development Projects
- Basic ABAP Language Elements
- Defining Elementary Data Objects
- Using Basic ABAP Statements
- Analyzing Programs with the ABAP Debugger
- Modularization Techniques in ABAP
- Explaining Modularization
- Defining and Calling Subroutines
- Calling Function Modules
- Creating Function Modules
- Describing Business Application Programming Interfaces (BAPIs)
- Calling Methods of Global Classes
- Creating Global Classes and Static Methods
- Using Local Classes
- Complex Data Objects
- Using Structured Data Objects
- Using Internal Tables

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- Data Modeling and Data Retrieval
- Explaining Data Models
- Retrieving Single Database Records
- Retrieving Multiple Database Records
- Describing Other Aspects of Database Access
- Implementing Authorization Checks
- Classic ABAP Reports
- Implementing ABAP Lists
- Implementing Selection Screens
- Implementing Events of ABAP Reports
- Screens
- Creating Screens
- Creating Input and Output Fields
- Implementing Data Transport
- SAP List Viewer
- Using the SAP List Viewer
- Web Dynpro ABAP
- Describing Web Dynpro ABAP
- Implementing Navigation in Web Dynpro
- Implementing Data Transport in Web Dynpro
- Program Analysis Tools
- Improving the Quality of ABAP Code with the Code Inspector

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- ABAP Development Tools for SAP NetWeaver
- Describing ABAP Development Tools for SAP NetWeaver
- Creating an ABAP Project in Eclipse
- SAP Standard Software Adjustments
- Adjusting the SAP Standard Software

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S4D480 - PDF-Based Print Forms with SAP S/4HANA

Course announcements

- This class, S4D480, is the successor of BC480. S4D480 contains nearly all the content of BC480, which explains how to create PDF-Based Print Forms. S4D480, in addition, covers specific new features of SAP S/4HANA.
- These are the possible ways of using those forms: The classical approach (valid for SAP S/4HANA On-Premise and for SAP ERP):
- In this classical approach "Adobe LiveCycle Designer for SAP" is being included in SAP GUI. To pass the actual data to the Print Form at runtime an own data retrieval program is needed. With this approach it is possible to create own print scenarios from scratch.
- Apart from this, there is the new, cloud-ready approach that works as well with On-Premise installations:
- This new approach uses "Adobe LiveCycle Designer for SAP" as a standalone client to develop Form Templates. These templates need to be uploaded to the backend system afterwards. The data retrieval is done via a Gateway Service. Normally it is not intended to create own output scenarios from scratch but rather to adopt existing SAP scenarios. This includes the adoption and extension of the form layout and the gateway service. That an output is created at runtime depends on customizing settings. Besides, this new approach allows for the distinction of Master Form Templates (like a frame of a picture with logo, sender address, receiver address) and Content Form Templates (like the actual picture with the transactional data) that makes it possible to reuse Master Form Templates for several Content Form Templates.
- As this customizing is very application specific it cannot be explained completely. Instead an existing example will be explained. It is important to understand that only predefined SAP scenarios can be used for this new approach and that it is not possible to create a scenario from scratch.

Goals

- This course will prepare you to:
- Understand SAP's Output Management Strategy
- Create print forms with the tool 'SAP Interactive Forms by Adobe'
- Integrate forms into ABAP application programs

Audience

- Developer
- Development Consultant
- Technology Consultant

Essential

- BC400 OR S4D400

Course based on software release

- AS ABAP 7.55
- SAP S/4HANA 2020

Content

- SAP's Output Management Strategy
- Developing Form Templates for SAP ERP and onwards
- New, cloud-ready ways to develop Form Templates for S/4HANA
- The Architecture of PDF-Based Print Forms
- Outlining the Architecture of PDF-Based Print Forms

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- Form Interface
- Creating the Form Interface
- Form Context
- Defining the Form and Integrating Basic Elements into the Context
- Integrating Folders and Graphics into the Context
- Integrating Addresses and Texts into the Context
- Structure and Usage of Adobe LiveCycle Designer
- Creating a Basic Layout using Adobe LiveCycle Designer
- Structuring a Form
- Form Layout
- Inserting Static Elements into a Form
- Creating Dynamic Form Elements
- Deploying Tables into a Form
- Scripting in Forms
- Implementing Scripting for Form Elements
- Integration of Forms into ABAP Programs (Classical approach)
- Integrating Forms into ABAP Programs
- Master Form Templates / Content (Application) Form Templates (New approach)
- Adobe LiveCycle Designer without SAP GUI (standalone Client)
- Customizing of Output Management (Overview) for new approach
- Customizing of Output Management
- Example for Output Management Customizing (only with demo system, no exercises)

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Notes

- The tool as such is officially called "SAP Interactive Forms by Adobe" even when used in pure printing scenarios. Course S4D480 covers only such printing scenarios. It does not deal with interactive scenarios or with the integration into web applications.
- This class covers basic knowledge on printing scenarios and does not handle application-details or customizing-details.

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BC100 - Introduction to Programming with ABAP

Goals

- Learn simple ABAP code
- Trace the flow of a program and troubleshoot simple problems

Audience

- Developer
- Developer Consultant
- Help Desk / COE Support

Essential

- None

Course based on software release

- SAP NETWEAVER 7.50 ECC608

Content

- Basics of ABAP Programming
- Developing a Simple ABAP Program
- Introducing ABAP Syntax
- Implementing a Simple Dialog
- Customizing the ABAP Editor
- Coding and Debugging in ABAP
- Defining Simple Variables
- Defining Text Symbols Performing Arithmetic Operations Using Simple Variables
- Using System Variables
- Debugging a Program
- Creating an ABAP List
- Processing Character Strings
- Control Flow Structures in ABAP
- Implementing Conditional Logic
- Implementing Loops
- Runtime Errors and Error Handling
- Analyzing Runtime Errors
- Implementing Error Handling
- Additional ABAP Programming Techniques
- Retrieving Data From the Database
- Describing Modularization in ABAP
- Using Function Modules

Notes

- The BC400 (ABAP Workbench Foundations) programming courses require that you understand the content of this basic course.

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SAPTEC - Technology Fundamentals of SAP S/4HANA and SAP Business Suite

Course announcements

- Would you like to understand how SAP systems function?
- This course introduces the technology fundamentals of most SAP applications (incl. SAP S/4HANA and SAP Business Suite), how SAP systems function, as well as an introduction to different user interfaces, such as SAP Fiori or SAP GUI. The training contains hands-on exercises in an SAP S /4HANA system and other SAP applications. The course will also introduce learners to the SAP strategy and provides an overview of cloud topics.
- After completing this course, users will have acquired the fundamental technology knowledge necessary to follow the learning path to their choice of business role ranging from SAP System administrator to developer to user interface expert or to project or program manager.

Goals

- This course will prepare you to:
- Present in detail the architecture of SAP Application Server. The SAP Application Server is the central component of SAP S/4HANA, and the SAP Business Suite.
- Learn effective techniques for navigating
- Receive an overview of the development process in an SAP system landscape
- Understand the basics of the SAP strategy

Audience

- System Administrator
- Technology Consultant
- System Architect
- Database Administrator
- Help Desk / COE Support
- Program / Project Manager
- Developer
- Development Consultant

Essential

- Knowledge of Information Technology

Course based on software release

- SAP S/4HANA 2021
- ABAP Platform 2021
- AS ABAP 7.56

Content

- SAP portfolio overview
- SAP systems
- Navigation using SAP Fiori, SAP GUI, SAP Business Client, a web browser
- Explaining the architecture of an SAP system, Application Server (AS) ABAP and Application Server (AS) Java
- Explaining the processes of an AS ABAP and AS Java based SAP system
- Processing user requests in AS ABAP
- Explaining the data structure of an AS ABAP-based SAP system
- Software development in SAP systems
- Communication and integration technologies (RFC, HTTP, and OData)
- Application Lifecycle Management (ALM)
- Describing the maintenance of an SAP system

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Notes

- SAPTEC examines SAP Application Server and imparts the knowledge that is required for subsequent courses related to the technology of SAP Application Server.
- SAPTEC is the entry point for administration for SAP S/4HANA, and SAP Business Suite.
- SAPTEC is the foundation for curricula like SAP System Administration, ABAP Development, SAP Portal, and SAP Process Integration.

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