



Sydney Institute of ERP

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SAP - APPLICATION DEVELOPMENT FOCUS ABAP

Course Goals

- Work with the ABAP Workbench tools
- Write simple ABAP programs
- Use object-oriented programming in ABAP Objects
- Develop your own simple ABAP programs
- Use the ABAP/ABAP Objects programming language and the ABAP Workbench tools to develop your own business applications or to customize SAP standard software
- Utilize your knowledge directly as a junior consultant in your first period of practice

Contents

- Introduction into SAP Business Suite (presentation of e-business applications, overview about SAP Web Application Server, communication and integration technology)
- ABAP Workbench tools
- Fundamentals of programming in ABAP: Basic ABAP syntax elements, user dialogs, techniques of list creation, function modules, program calls and data transfer
- ABAP Dictionary – Creation of global objects (data types, tables, views) and search helps
- Object oriented programming with ABAP Objects (classes and objects, inheritance, interfaces, events, exception concept, persistent objects)
- Programming list with the ALV Grid Control
- Advanced programming in ABAP (performance of internal and data base table accesses, dynamic programming)
- Case study (applying the basic knowledge learned in this course in a programming project)• Billing plans and down payments
- Dialog programming: principles and ergonomics, user interface, screen object attributes, implementation, and processing, context menus, list processing
- Database updates: Open SQL statements, LUW-concept of SAP Web AS, usage of SAP locking concept, database updates from dialog programs using suitable techniques: inline updates, synchronous, asynchronous and local updates in V1 and V2 mode, implementation of complex transactions
- Overview of the SAP implementation tool Solution Manager: e-learning for self-study

- Enhancements and modifications: changing the SAP standard software, personalization, enhancement techniques (Dictionary appends, customer exits, business transaction events, Business Add Ins), modifications incl. modification assistant and adjustment, SAP Note Assistant
- Case study: applying basic knowledge learned in this course in a programming project

Student Handbooks:

TAW10 ABAP Workbench Fundamentals

Units

1. The Big Picture
2. Navigation
3. The System Kernel
4. Communication and Integration Technologies
5. Flow of an ABAP Program
6. Introduction to the ABAP Workbench
7. Basic ABAP Language Elements
8. Modularization
9. Complex Data Objects
10. Data Modeling and data Retrieval
11. ABAP Open SQL
12. Selection Screen
13. Programs Calls and Data Storage Management
14. New Test Tools
15. Introduction to Screen Programming
16. The Program Interface
17. Screen Elements for Output
18. Screen Elements for Input/Output
19. Screen Elements: Subscreens and Tabstrip Controls
20. Introduction to the Dictionary
21. Data Objects in the ABAP Dictionary
22. Performance When Accessing Tables
23. Input Checks
24. Object Dependencies
25. Changing Tables
26. Views and Maintenance Dialogs
27. Search Help

TAW12 ABAP Workbench Concepts

Units

1. Introduction to Object Oriented Programming
2. Object Oriented Concepts and Programming Techniques
3. Object Oriented Repository Objects

4. Class-Based Exception Concept
5. Shared Objects
6. Dynamic Programming
7. Changing the SAP Standard System
8. Enhancing Dictionary Elements
9. Enhancements Using Customer Exits
10. Business Add-Ins
11. Modifications
12. Enhancements
13. Web Dynpro: Introduction
14. Web Dynpro Controllers
15. The Context at Design Time
16. Defining the User Interface (UI)
17. Controller and Context Programming
18. Internationalization and Messages

Course Based on Software Component (s) and Release (s)

SAP Web Application Server 6.40

Access to SAP ERP software and Training materials

SAP training materials will be provided for this course. Access to the SAP Web Application Server 6.40 will be granted through SAP's training clients.

Award

On successful completion of this course, you will receive an Executive Certificate in ERP (SAP Application Development) from Sydney Institute of ERP.

Campus Location

Level 2, 80 Mount Street, North Sydney, NSW 2060

SAP Certification

On completion of the course, you sit for formal relevant certification exam with SAP Australia. On successful completion, you will receive a certificate from SAP Germany.