SAP - APPLICATION DEVELOPMENT FOCUS ABAP

The ABAP course contains the following training:

- TAW10 ABAP Workbench Fundamentals
- TAW12 ABAP Workbench Concepts

TAW10 ABAP Workbench Fundamentals (Course Version: 054)

Goals

- work with the ABAP Workbench tools
- write simple ABAP programs
- Use object-oriented programming in ABAP Objects
- Develop your own simple ABAP programs

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

TAW12 ABAP Workbench Concepts (Course Version: 052)

Goals

- 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
- 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 (Part 1)

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

TAW10 ABAP Workbench Fundamentals (Part 2)

Units

1. Introduction to Screen Programming
2. The Program Interface
3. Screen Elements for Output
4. Screen Elements for Input/Output
5. Screen Elements: Subscreens and Tabstrip Controls
6. Introduction to the Dictionary
7. Data Objects in the ABAP Dictionary
8. Performance When Accessing Tables
9. Input Checks
10. Object Dependencies
11. Changing Tables
12. Views and Maintenance Dialogs
13. Search Help

TAW12 ABAP Workbench Concepts (Part 1)

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

TAW12 ABAP Workbench Concepts (Part 2)

Units

1. Changing the SAP Standard System
2. Enhancing Dictionary Elements
3. Enhancements Using Customer Exits
4. Business Add-Ins
5. Modifications
6. Enhancements
7. Web Dynpro: Introduction
8. Web Dynpro Controllers
9. The Context at Design Time
10. Defining the User Interface (UI)
11. Controller and Context Programming
12. Internationalization and Messages

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

ABAP with SAP Netweaver 7.0

Access to SAP ERP software and Training materials

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

Award

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

SAP Certification

On completion of this course, you sit for formal certification exam with SAP Australia. On successful completion, you will receive a consultant certificate at the associate level from SAP Germany.