

SAP ABAP / 4 (Advanced Business Application Programming)

Basic Course Contents

Introduction to ABAP/4

1. Introduction to ERP.
2. SAP R/3 Architecture, Introduction to ABAP/4.
3. ABAP/4 Editor.
4. Data Types.
5. Output Statements.
6. Writing Small Programs.
7. Arithmetic Operations.
8. String Operations.
9. Control Statements.
10. Selection Screens.
11. Open SQL Statements (*Insert, Modify, Delete, Update*)
12. Simple Reporting.

Data Dictionary

13. Creation of Database Tables.
14. Data Element.
15. Domain.
16. Structures.
17. Search Helps.
18. Views.
19. Type Groups.
20. Table Maintenance Generator & T-Code Creation.
21. Primary & Foreign Keys.
22. Check & Value Tables.

Reporting

23. Debugging Techniques.
24. Internal Tables.
25. Modularization Techniques.
 - a. Includes.
 - b. Subroutines.
 - c. Function Modules.
26. For all Entries & Joins.
27. Message Class Creation & Message Types.
28. Events for Classical Reports.
29. Events for Interactive Reports.

ABAP OOPS

30. Fundamentals of OOPS.
31. Introduction to Local Classes & Methods.
32. Importance of Public, Private & Protected Sections.

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- 33. Simple reporting using Local classes & Methods.
 - 34. Global Classes & Interfaces.
 - 35. Use of Global Classes in the Reports.
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ALV

- 36. Introduction to ALV.
 - 37. Types of ALV.
 - 38. Simple Report to display simple ALV List using Function Modules.
 - 39. Simple Report to display simple ALV Grid using Function Modules.
 - 40. Interactive ALV Reports.
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Dialog Programming

- 41. Introduction to Dialog Programming.
 - 42. Flow Logic.
 - a. PAI (*Process After Input*).
 - b. PBO (*Process Before Output*).
 - 43. Screen Designing.
 - 44. Programming in Object Browser.
 - 45. Field Validations.
 - 46. Creation of Table Controls & Tab Strips.
 - 47. Dynamic Screen.
 - a. Call Screen.
 - b. Set Screen.
 - c. Leave to Screen.
 - d. Leave Screen.
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Interface Programming

- 48. Why Data Transfers?
 - 49. Introduction to BDC.
 - 50. Recording Transactions.
 - 51. Methods in BDC.
 - a. Call Transactions.
 - b. Session Method.
 - 52. Flat File Creation.
 - 53. Uploading Data
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SAP Scripts & SMARTFORMS

- 54. Introduction to Scripts.
 - 55. Layout Sets.
 - 56. SAP Scripts Elements.
 - 57. Logo Inclusion.
 - 58. Working with SMARTFORMS.
 - 59. Standard Texts.
 - 60. Graphics Management.
 - 61. Writing Print Programs & Designing Layouts.
 - 62. Output Type Configuration to Standard Orders.
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Enhancements

- 63.** Introduction to Enhancements.
 - 64.** User Exits.
 - 65.** Customer Exits.
 - 66.** Introduction to BAdI (**B**usiness **A**dd **I**ns).
 - 67.** How to Implement BAdI.
 - 68.** Overview of Enhancement Spots, Enhancement Section, Enhancement Implementations & Class Enhancements.
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Cross Application

- 69.** Introduction to Cross Applications.
 - 70.** Working with RFC Function Modules.
 - 71.** BAPI & Business Objects.
 - 72.** Overview of Business Objects.
 - 73.** Step by Step Approach followed to create BAPI.
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Miscellaneous Topics

- 74.** SAP System Landscape.
 - 75.** Transport Organizer.
 - 76.** Task Creations.
 - 77.** Releasing Requests.
 - 78.** Package Creation.
 - 79.** Transaction Code Creation.
 - 80.** SD Flow.
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