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SAP ABAP + SAP OOABAP + SAP WebDynpro ABAP Training

Course Main Topics

R – Reports [Classical , Interactive & AVL Reports]
I – Interfaces [ALE/IDOC]
C – Conversion [BDC, LSMW]
E – Enhancements [User-exits & BADI's]
F – Forms [Smartforms]

Object Oriented ABAP (OOABAP)

WebDynpro ABAP (WDA)

Interview FAQs & Resume Preparation

Conduct MOCK Interviews & Preparation

Course Duration   55 Hours

Course Mode   Online

System Access   60 Days (from Course start)

Effective Technical Support

Study Material   SNTech GS Easy Study Material
                            Many More Online Material links provided

SNTech Faculty   Take care at individual candidates to maintain
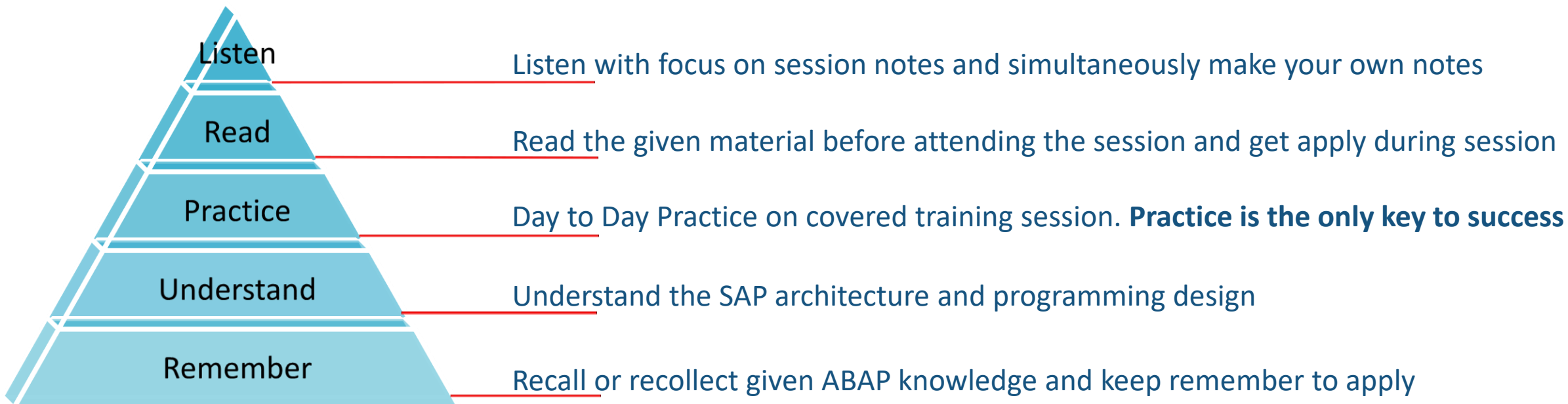   constant knowledge & Clarifications

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Learning Strategies: SNTech GS request every participant to strictly follow this strategy for their bright future ahead

Listen ————— Listen with focus on session notes and simultaneously make your own notes

Read ————— Read the given material before attending the session and get apply during session

Practice ————— Day to Day Practice on covered training session. **Practice is the only key to success**

Understand ————— Understand the SAP architecture and programming design

Remember ————— Recall or recollect given ABAP knowledge and keep remember to apply

Inspiring quote: "All of us do not have equal talent. Yet, All of us have an equal opportunity to develop our talents"

- by Ratan TATA

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Course Content

Topic 1   ERP & ABAP Introduction?

- ERP Overview
- SAP ERP software R/3 System overview
- SAP NetWeaver Architecture overview
- Advanced Business Application Programming (ABAP) overview

Topic 2   ABAP Dictionary   Transaction code: SE11

- Introduction
- Domains
- Data element
- Field
- Structure
- Table Type
- Table
- Views
- Search Helps
- Lock objects

Topic 3 ABAP Workbench	Transaction code: SE38 or SE80

- Introduction

Report Types

- Classical Report
- Interactive List Report
- ALV Report
  - Classical ALV Report
  - List ALV Report
  - Blocked ALV

Report Events

- Load-of-programme
- At-selection screen
- At-Line selection
- At-user command
- Initialization
- Start-of-selection
- End-of-selection … ETC.,

Data variable Declaration

- Variable Declaration
- Work area Declaration

- Internal Table Declaration
- Table Type Declaration
- Types Declaration
- Field-Symbol Declaration

Internal table Type

- Standard Internal Table
- Sorted Internal Table
- Hash Internal Table

Modularization Techniques

- Micros
- Sub routine
- Functional Module & BAPI   [Transaction code : **SE37**]

Topic 4 Dialog Programming	Transaction code: SE38 /SE80

- Introduction
- Screen Logic
- Screen Painter   [Transaction code : **SE51**]
- Menu Painter   [Transaction code : **SE41**]
- Table Control
- Transaction code creation

Topic 5	File Handling	Transaction Code: SHDB

- BDC Introduction
- BDC – Call Transaction Method
- BDC – Session Method [Transaction code: SM35]
- BDC file upload/download

Topic 6	RFC	Transaction Code: SM59

- RFC Introduction
- Connection establishment using RFC between different systems

Topic 7	Enhancement Framework

- Introduction
- Customer/User exit (Menu exit, Screen exit)
    - Definition [Transaction code: **SMOD**]
    - Implementation [Transaction code: **CMOD**]
    - Implicit Enhancement [Transaction code: **SE38/SE80**]
- Explicit Enhancement
    - BADI (Business Add-Ins) Definition [Transaction code: **SE18**]
    - BADI (Business Add-Ins) Implementation [Transaction code: **SE19**]

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Topic 8	Smartforms	Transaction Code: SMARTFORMS

- Introduction
- Windows
  - Main window
  - Copied window
  - Secondary window
  - Final Window
- Driver Program
- Style Builder

[Transaction code: **SMARTSTYLES**]

Topic 9	Workflows	Transaction Code: SWDD

- Introduction
- Workflow builder
- Basic step types
- Triggering event mechanisms [Function module: SWE_EVENT_CREATE, SAP_WAPI_RAISE_EVENT]
- Business Workplace

Topic 10	Interface Documents (Idoc's)

- Introduction
- Inbound Interface Demo
- Outbound Interface Demo

Topic 11	Basic Object-Oriented ABAP features

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OOABAP – Course Content

Topic 12	Object Oriented ABAP [OOABAP]	Transaction Code: SE24

- What is Object Oriented ABAP and Concepts ?
- SAP Class Builder Introduction
- Write First SAP class

Topic 13	Working with class methods in OOABAP

- Class methods and creating methods in sap classes
- Create a class method to get material details in SAP OOPS
- Using table types in methods in SAP classes
- User-defined types in SAP Classes

Topic 14	Events in Object Oriented ABAP

- What are Events in SAP classes ?
- Example of using Events in SAP OOABAP classes

Topic 15	Constructors in SAP OOABAP

- What is CONSTRUCTORS in SAP OOABAP ?
- Using Constructor method in SAP OOABAP
- Using CLASS CONSTRUCTOR in SAP OOABAP

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Topic 16   Interfaces in SAP OOABAP

- Interface Concept in Object Oriented ABAP
- Creating Class Interface in SAP OOABAP
- Using aliases for interface methods in SAP OOABAP

Topic 17   Inheritance in SAP OOABAP   Transaction Code: SE24

- Inheritance in SAP OOABAP
- Using inheritance in SAP OOABAP

Topic 18   Local Classes in SAP OOABAP

- What is a local Class in OOABAP ? Properties of local class in OOABAP
- Local class with attributes in OOABAP

Topic 19   Local Classes with methods in OOABAP

- Local class with methods in SAP OOABAP
- Local class with tables in SAP OOABAP
- Local class with user-defined types in SAP OOABAP

Topic 20   Events in Local Classes in SAP OOABAP

- Local class with event and event handler method in SAP OOABAP

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Topic 21	Local class constructor in OOABAP

- Using CONSTRUCTOR in local class
- Using CLASS-CONSTRUCTOR in SAP Local classes

Topic 22	Interfaces in local classes in SAP OOABAP

- Creating and Using interfaces in Local Classes in SAP OOABAP

Topic 23	Inheritance in local classes in SAP OOABAP

- Using inheritance in local classes in SAP ABAP Using inheritance in SAP OOABAP

Topic 24	Developing ALV using OOABAP

- Introduction to ALV using OOABAP
- ALV with structure using OOABAP
- Using field catalog in OOALV

Topic 25	ALV Factory Method with OOABAP

- ALV Using Factory Methods using OOABAP
- ALV factory method with user defined types
- Hotspot in ALV with OOABAP factory methods
- Interactive ALV with factory method using events
- Totals and Subtotals in ALV factory methods
- Top of page and end of page in OOALV with factory methods

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Topic 26   Singleton Pattern on ABAP Objects

- Singleton Concept in Object Oriented ABAP
- Creating global singleton class in OOABAP
- Creating Local singleton class in OOABAP

Topic 27   Exception Handling in SAP OOABAP

- Handling exception using standard exception classes provided by SAP
- Handling exception using customized exception classes

Web Dynpro ABAP – Course Content

Topic 28   Introduction to WebDynpro ABAP   Transaction code : SE80

- Outlining the Benefits of Web Dynpro
- Explaining Web Dynpro Architecture
- Navigating Between Views
- Using View Assemblies
- Explaining Web Dynpro Architecture and Relationships Between Entities
- Usage of Assistance Class
- Faceless Component

Topic 29   WebDynpro Controllers

- Explaining Web Dynpro Controllers
  - Component Controller
  - Window Controller
  - View Controller
  - Interface Controller

Topic 30   WebDynpro Context at Design Time

- Defining the Context
- Setting Context Node Properties
- Context Mapping

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Topic 31   WebDynpro User Interface

- Defining the View Layout
- Data Binding and Controlling UI Element Behavior
- Using Composite UI Elements and Static Context Menus

Topic 32   WebDynpro Controller and Context Programming

- Understanding Controller Methods and Attributes
- Using Controller Methods to Access the Context at Runtime
- Adding New Elements to a Context Node
- Implementing Supply Functions

Topic 33   WebDynpro Internationalization and Messages

- Using ABAP Dictionary Texts and the Online Text Repository
- Implementing an Assistance Class
- Reporting Messages

Topic 34   WebDynpro Value Help and Semantic Help

- Providing Value Help, Value Selectors, Semantic Help, Keyboard Access

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| Topic 35 | **WebDynpro Dialog boxes (Popups)** |

- Creating Dialog Boxes

| Topic 36 | **WebDynpro Component Reuse** |

- Reusing Web Dynpro Components
- Declaring a Component Usage
- Implement Advanced Aspects of Component Reuse

| Topic 37 | **WebDynpro Adaptation Techniques** |

- Adapting Web Dynpro Applications
- Configuring Web Dynpro Applications
- Enhancing Web Dynpros
- Modifying the Context at Runtime and the UI at Runtime

| Topic 38 | **WebDynpro Additional Topics** |

- Using SAP List Viewer (ALV) in Web Dynpro for ABAP
- Integrating Web Dynpro in the Portal
- Monitoring and Debugging Web Dynpro Applications

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