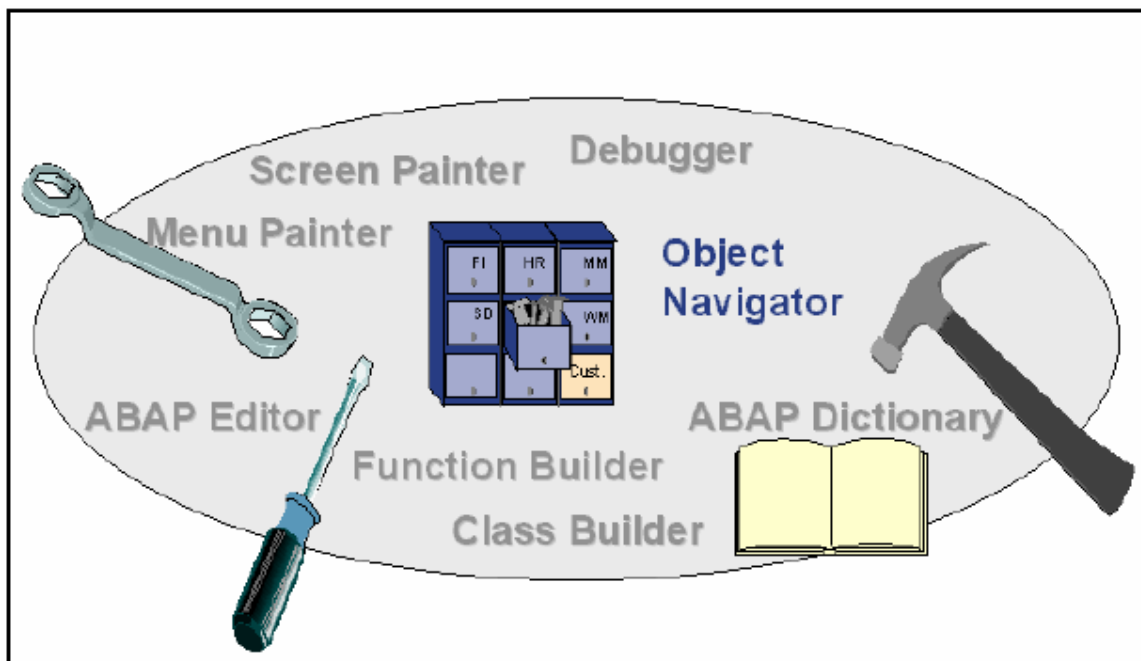


SAP (ABAP) Technical Training Module Course Structure

1. Introduction about SAP:

- What is SAP?
- What are the strength of SAP and the different components of SAP, CRM, SCM etc.
- Introduction to the Architecture of SAP. and Request Flow
- Introduction to the Client concept, Details of the database server.

2. Introduction to ABAP Workbench - Introduction to the different tools provided by SAP :



The most important tools for developing business applications are:

- **ABAP Editor** for writing and editing program code
- **ABAP Data Dictionary** for processing database tables and retrieving global data
- **Screen Painter** for designing the screens (dynamics or screen programs) for user dialogs
- **Menu Painter** for designing the user interface (menu bar, standard toolbar, application toolbar)
- **Class Builder** for displaying and processing central classes (object oriented objects)
- **Function Builder** for displaying and processing functional modules (subroutines with defined interfaces that are available throughout the system)

3. Introduction to ABAP Data Dictionary

- What is ABAP DDIC concepts and attributes?
- What are the different dictionary objects?
- Dependencies between objects in the ABAP Dictionary
- Details of transparent tables, including includes and appends
- Views and append views
- Search help and append search help
- Technical and Performance aspects of tables Relationship between tables, views, Structures, data elements, domains, lock objects, search helps, repository information System

4. Dialogue programming

- Transactions Processing
- Creations of screens, screen elements
- Concepts of Flow logics,
- Event Blocks , Processing Blocks
- Introduction to controls :
 - a. Table controls
 - b. ALV grids
 - c. Tab strips
 - d. LUW concepts
 - e. Transaction creations

5. Programming ABAP Reports

- Program flow and program execution.
- Logical databases
- List design and List formatting
- Selections screens and data selection
- Data Retrieval and buffering
- Open SQL programming with the SAP list viewer (ALV)
- Using ALV grid control for displaying tables
- Using ALV basic functions from the application
- Interactive Lists
- Storage Lists
- Control Level Processing

6. Data Base Updates

- Statements to change the database tables.
- LUW concepts
- The Lock concepts :

- Introduction to controls :
 - What are the Lock objects and Lock modules
 - Database updates using Dialogue Programs
 - Different update techniques
 - Synchronous Updates
 - Asynchronous Updates
 - Local Updates
 - V1 and V2 Updates
 - What are the Lock objects and Lock modules
 - Number Ranges.
 - Change Documents

7. ABAP - Object Oriented Concepts

Different aspects of object oriented approach of ABAP

1. UML
2. Classes and objects
3. Generalization and Specialization
4. Inheritance
5. Interfaces
6. Polymorphism
7. Events
8. Final Classes
9. Abstract Classes
10. Global classes and interfaces through the class builder

8. Modifications Enhancements & Customizations

- Changing the SAP Standard
- Customizing Techniques
- Enhancement Concepts
- Modifications

9. SAP Scripts
10. Smart Forms
11. BDC and LSMW
12. Overview of ALE, IDocs, EDI
13. Overview of one Functional Modules
14. Real time Case Study

Duration: 100 hrs (8 to 10 weeks)