**Duration: 80 Hours (2 months)**

**SAP ABAP training course content and Syllabus**

**INTRODUCTION TO SAP AND ABAP/4 LANGUAGE**

* Resume Preparation
* Software Life Cycle in real world
* Overall introduction to ERP
* Introduction SAP R/3 architecture, Introduction to SAP ABAP/4
* ABAP/4 editor (Focus on the functionalities of new ABAP editor)
* Data types
* Data Dictionary
* Tables
* Data element
* Domain
* Structures
* Search helps
* Views
* Table maintenance generator and T-code creation
* Primary and foreign keys.
* Check and value tables.
* Output statements
* Writing small programs
* Arithmetic operations
* String operations
* Control statements
* Open SQL –statements {insert, modify, delete, update}.
* Simple reporting
* Selection screens
* Transaction code creation

**REPORTING**

* Debugging techniques
* Breakpoint creation.
* Watch point creation.
* Emphasize on the usage of New Debugger.
* Internal tables
* Declaration
* Processing
* Population
* Control Break Statements.
* Modularization techniques.
* Includes.
* Subroutines.
* Function modules.
* Macros
* Variants.
* Conversion exits.
* For all entries
* Message class creation & message types and handling messages.
* Events for interactive reports.
* Hide and hotspot.
* Creating and handling buttons.
* Menu painter.

**ABAP OOPS**

* Fundamentals of OOPS.
* Introduction to Local classes and methods
* Importance of Public, Private and Protected sections.
* Simple reporting using local classes and methods.
* Global classes and interfaces.
* Usage of global classes in the reports.

**ALV**

* Introduction.
* Types of ALV
* Simple report to display simple ALV grid using Function Modules.
* Interactive ALV Reports.
* Working with OOALV using classes

**DIALOG PROGRAMMING**

* Introduction to screen painter and dialog programming.
* Flow logic
* PAI.
* PBO.
* Screen designing.
* Programming in object browser.
* Field validations.
* Tab Strips.
* Call Screen.
* Set Screen.
* Leave to Screen.
* Leave Screen.
* Lock objects.

**INTERFACE PROGRAMMING**

* Why Data Transfers
* Introduction to BDC.
* File Handling.
* Presentation server.
* Application server.
* Recordings.
* Methods in BDC.
* Call transaction.
* Session method.
* Error Handling in Call Transaction.
* Different methods.
* Flat file creation.
* Uploading data.

**SMARTFORMS**

* Working with smart forms.
* Writing print program and designing layouts.

**MISCELLANEOUS TOPICS**

* SAP System Landscape.
* Correction and Transport System (CTS).
* Transport Organizer.
* Workbench Request.
* Task Creation.
* Merging Requests
* Release Requests.
* SAP memory.
* SET/GET parameters.
* ABAP memory.
* Imports/ Exports.
* Logical Database and Handling Events (LDB).
* Field symbols.
* SD flow.
* MM flow.

**ALE/IDOCS**

* Concepts of IDOCS.
* Structure of IDOCS and Types.
* Creation of segments
* Creation of IDOCS.
* Using standard message types
* Defining logical systems used for ALE interfaces.
* Outbound / Inbound processing. Transferring of master data from one system to another system.
* Distribution modal view.
* IDOC Programming / Custom IDOCS.

**BAPI and Business Objects**

* Introduction to BAPI
* Overview of Business Objects.
* Step By Step Approach followed to create BAPI.

**ENHANCEMENTS**

* Introduction to enhancements.
* Different Ways of doing Enhancements.
* User Exits.
* Customer Exits.
* Introduction to BADI
* How to implement BADI
* Overview on Enhancement Spots, Enhancement Section, Enhancement Implementations and Class Enhancements

**SAP WORKFLOW**

* Introduction of SAP WORKFLOW.

**Documentation:**

* Prepare required documentation like Technical Specs (TS), UTP
* Code Review process and checklist
* Estimation of projects

**Interview Preparation**

* Building resume for SAP ABAP.
* Mock interview with industry leaders.
* Interview questions and scenarios.