



QUICKSTEP COMPUTER CENTER

National Accreditation Board of Education Training.
(NABET)- Quality council of India) An ISO 9001:2008

*******ABAP (Advanced Business Application Programming)*******

+ Introduction

What is ERP?

- ❖ Why we need ERP?
- ❖ Advantages of ERP
- ❖ Major ERP Packages

+ Introduction to SAP & R/3 Architecture

- ❖ What is SAP?
- ❖ History & Features of SAP
- ❖ SAP R/2 Architecture (Limitations of R/2 Architecture)
- ❖ SAP R/3 Architecture (Types of work processes)
- ❖ SAP R/3 Application Modules
- ❖ SAP Landscape
- ❖ Extended Program Check

+ Introduction to ABAP/4

- ❖ What is ABAP?
- ❖ Logon to SAP Environment
- ❖ Transaction Codes
- ❖ Multitasking Commands
- ❖ Comments
- ❖ Errors
- ❖ ABAP/4 Editor (SE38)
- ❖ Steps for Creating a Program
- ❖ Elements in R/3 Screen
- ❖ Out put Statements
- ❖ Operators in ABAP
- ❖ Data, Parameter & Constant Statements
- ❖ Data Types & Classification
- ❖ Data Objects & Classification
- ❖ Text Elements
- ❖ String Operations
- ❖ Control Statements
- ❖ Field strings

+ ABAP Dictionary

- ❖ ABAP Dictionary Introduction
- ❖ Data Dictionary Functions
- ❖ Data Dictionary Objects
 - Data Base Tables
 - Structures
 - Views
 - Data Elements
 - Type Groups
 - Domains
 - Search helps
 - Lock objects
- ❖ Primary Key And Foreign Key
- ❖ Table Maintenance Generator

✚ Packages

- ❖ Creating a package
- ❖ Difference between local objects & packages
- ❖ Transferring local objects to packages

✚ Variants

- ❖ Variants Introduction
- ❖ Creating variants in ABAP Editor & Data Dictionary

✚ Message Classes

- ❖ Message Class Introduction
- ❖ Message types
- ❖ Calling message class in Report & Dialog programs

✚ Selection Screens

- ❖ Selection screen Introduction
- ❖ Screen table and its fields
 - Parameter Statement
 - Select-options Statement
 - Selection-screen Statement
- ❖ Dynamic screen modification by using Modif Id key

✚ Open SQL Statements

- ❖ Select
- ❖ Insert
- ❖ Modify
- ❖ Update
- ❖ Delete

✚ **Internal Tables**

- ❖ Internal Tables Introduction
- ❖ Declaring Internal Table
- ❖ Populating Internal Table
- ❖ Processing Internal Table
- ❖ Initializing Internal Tables
- ❖ Inner Joins And For All Entries
- ❖ Control Break Statements

✚ **Debugging Techniques**

- ❖ Debugging Techniques Introduction
- ❖ Break-points (Static & Dynamic)
- ❖ Watch points
- ❖ Dynamically changing internal tables contents in Debugging Editor
- ❖ Options to step through the program in Debugging Editor

✚ **Modularization Techniques**

- ❖ Modularization Techniques Introduction
- ❖ Includes
- ❖ Subroutines
- ❖ Passing Parameters to Subroutines
- ❖ Passing Tables to Subroutines
- ❖ Function Groups & Function Modules

✚ **Reports**

- ❖ Reports Introduction
- ❖ Classical Reports
- ❖ Interactive Reports
- ❖ Techniques Used For Interactive Reports
 - Hotspot
 - Hide
 - Get Cursor
 -

✚ **ALV Reports**

- ❖ ALV Reports Introduction
- ❖ ALV through Function Modules
- ❖ ALV Types

✚ **Dialog / Module Pool Programming/ Transactions**

- ❖ MPP Introduction
- ❖ Relationship between Screen, Flow Logic and Program
- ❖ Flow Logic Events

- Process Before Output (PBO)
- Process After Input (PAI)
- Process On Value Request (POV)
- Process On Help Request (POH)
- ❖ Include Programs in MPP
 - Include TOP
 - Include I01
 - Include O01
 - Include F01
- ❖ Dynamic Screens
 - Leave Screen
 - Leave to Screen
 - Call Screen
 - Set Screen
- ❖ Processing of List from Transaction and Vice Versa
- ❖ Elements in Screen Layout
 - Table Controls
 - Step Loops
 - Tabstrip Controls
 - Subscreens

✚ **Batch Data Communication**

- ❖ BDC Introduction
- ❖ Recording
- ❖ BDC Methods
 - Call Transaction Method
 - Session Method
- ❖ Handling Table Controls in BDC
- ❖ Legacy System Migration Workbench
 - Different Methods
 - Flat file creation
 - Uploading data
- ❖ File Handling
 - Application Server
 - Presentation Server

✚ **SAP Scripts**

- ❖ SAP Scripts Introduction
- ❖ Components of SAP Scripts
 - Layout Set
 - Standard Text
 - Out Put Program
- ❖ Modifying Standard SAP Script Layouts
- ❖ Including Logos
- ❖ SAP Script Utilities - Upload / Download

- ❖ Smart Forms Introduction
- ❖ Graphics Management
- ❖ Style Maintenance
 - Paragraph Formats
 - Character Formats
- ❖ Writing print program and designing layouts

✚ **Smart Forms**

- ❖ Smart Forms Introduction
- ❖ Style Maintenance
- ❖ Graphics Management
 - Paragraph Formats
 - Character Formats
- ❖ Writing print program and designing layouts

✚ **Runtime Analysis & SQL Tracing**

Cross Applications

- ❖ Introduction to Distributed Environment
- ❖ Introduction to Cross Applications

✚ **RFC**

- ❖ Introduction to RFC
- ❖ Creating RFC Destination between 2 Systems
- ❖ Creating Remote Enabled Function Modules
- ❖ Creating program using Remote Enabled Function Modules

✚ **ALE**

- ❖ ALE Basics
- ❖ Overview of Outbound & Inbound Process
- ❖ Configuration Steps
- ❖ Define logical systems
- ❖ Assign client to logical system
- ❖ RFC destination
- ❖ Customer distribution model
- ❖ Creating Ports

✚ **IDocs**

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- ❖ Define logical systems
- ❖ Assign client to logical system
- ❖ RFC destination
- ❖ Customer distribution model
- ❖ Creating Ports

✚ **EDI**

- ❖ EDI Basics
- ❖ Difference between ALE & EDI
- ❖ Overview of Outbound & Inbound Process
- ❖ Configuration Steps
- ❖ Port Creation
- ❖ Partner Profile Creation

✚ **User Exits**

- ❖ User Exits Overview
- ❖ Types of User Exits
 - Field Exit
 - Screen Exit
 - Function Exit
 - Menu Exit

✚ **BAPIs**

- ❖ BAPI Overview
- ❖ Creation of BAPI

✚ **Workflow**

- ❖ What is workflow?
- ❖ Overview of workflow

✚ **BADIs**

- ❖ BADIs Overview
- ❖ Defining a BADI
- ❖ Implementing a BADI

✚ **OOPS Concept**

- ❖ Object Oriented ABAP Overview
- ❖ Defining a Class
- ❖ Implementing a Class

✚ **Miscellaneous Topics**

✚ **Correction & Transport request (CTS)**

- ❖ Transport Organizer
- ❖ Work Bench Request
- ❖ Task Creation
- ❖ Release Objects
- ❖ SAP Memory & ABAP Memory
- ❖ Logical Database
- ❖ SD Flow
- ❖ MM Flow

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