

# OBJECT ORIENTED ABAP @ GENSOFT Technologies

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Powered By:  
Mr. Sridhar Sunkari  
(18+ yrs Exp.)  
On-line & Class-Room Trainings

- INDEPTH
- UNCOMPARABLE
- SUBJECT GUARANTEED

- Leader in SAP Technical Modules Training
- Trained 1000's of students both in On-line and Class-room and also conducted **Corporate Trainings** for the IT COMPANIES which includes TCS, WIPRO, CMC, VERIZON, GENPACT, SIERRA ATLANTIC, VOLKSWAGON, INDIAN RAILWAYS and many more...
- Program Delivered by **Real-Time consultant - SRIDHAR SUNKARI** having over 18+ yrs of experience in different technologies
- Real-time Scenarios with In-depth and Advanced Topics covered
- Numero Uno in **CORE ABAP, OBJECT ORIENTED ABAP, CROSS APPLICATIONS, ABAP HANA, WEBDYNPRO, SAP UI5 Front-end and Back-end Training**
- Detailed Class-Room Notes will be provided, need not depend on any other material
- As an additional service, Daily e-mails will be sent containing day-day class-room session material
- Most of our old students are working in **TOP IT COMPANIES**; we welcome you to interact with our old or existing students before registration
- To attend online 2<sup>nd</sup> time for the same module, students need to register again

## OOPS CONCEPTS (Mandatory

- Types of Programming Languages
- Applications of OOPS in SAP
- Features of OOPS concepts
- Introduction to CLASS and OBJECT
- Difference between structures and classes
- Creation of Classes in different Programming Languages
- Types of ABAP Classes
- Class-Components
- Visibility Sections
- Local Class Creation
- Global Class Creation using CLASS BUILDER Tool
- Instance and Static Attributes
- Instance and Static Methods
- RETURNING keyword / Parameter
- Exception Handling (Local & Global)
  - Standard Exceptions
  - Try and Catch Blocks
  - Standard Exception Messages
  - User Defined Exceptions
  - Raising Keyword
  - CLEANUP Block
  - Hierarchy of Exceptions
- ME Keyword
- LOAD keyword
- Converting Local class to Global class
- Creating T-codes for Methods
- Constructors
  - Instance Constructors
  - Static Constructors
  - Parameters to Constructors
  - Class Loading
- Inheritance (Local & Global)
  - Types of Inheritance
  - Hierarchy of Constructor execution
- Exception Classes with OTR
- Exception Classes with Message classes
- Modeled Classes
- Types and Macros Declaration in Classes

## for all SAP Technical Modules )

- Polymorphism
  - Method Overloading
  - Method Overriding
  - REDEFINITION Keyword
  - SUPER Keyword
- Final Classes and Final Methods
- Abstract Classes (Local & Global)
- Interfaces (Local & Global)
- Aliases (Local & Global)
- Implementing Interfaces Partially
- Visibility at Class levels
  - Public Classes
  - Protected Classes
  - Private Classes
  - Abstract Classes
- Friend Classes (Local & Global)
- DEFERRED Keyword
- Singleton Classes
- Persistence Service
  - GUID Object Identity
  - Business Key Identity
- Transaction Service
- Design Pattern Example
- Casting
  - Narrow Casting
  - Wide Casting
- RTTS and RTTC

## EVENT HANDLING in Classes

- Introduction to events
- Procedure for Custom Event Handling
  - Local classes
  - Global classes
- Instance and Static Events
- Raising events
- Single and Multiple Event Handler methods
- Instance and Static Event handler methods
- Registering Handlers
- Deactivating Handlers
- FOR ALL INSTANCES Keyword
- Events with Parameters
- Events in Interfaces

**OBJECT ORIENTED ABAP CONTINUED...**

## ALV Reports using classes

- Introduction to ALV
- Linking ALV Classes
- Field Catalogue Generation
  - Using Function Module
  - Manually
  - Dynamic Field Catalog
- Layout Generation
- Variants in ALV
- Identifying Selected Rows in ALV grid
- Enabling Multiple selection of ALV rows
- ALV Cells as DROP DOWN List
- ALV Row, Column and Cell Coloring
- ALV Cells as Pushbuttons
- ALV columns as checkboxes
- ALV Toolbar buttons Exclusion
- ALV Toolbar buttons Enabling
- ALV Toolbar buttons Disabling
- ALV Columns as TRAFFIC LIGHTS
- ALV Grid Data Download to Excel
- ALV Report Background Scheduling
- Docking Container
- Subtotals and Subtotal texts

## ALV Reports using FUNCTION MODULES

- SLIS Type-pool
- Field Catalog
- Layout Generation
- Classical ALV
- Interactive ALV
- Blocked ALV
- Hierarchical ALV

## STANDARD EVENT HANDLING in ALV Reports using Classes

- Procedure for Standard Event handling
- Button\_Click
- Double\_Click
- Hotspot\_Click
- User\_Command
- Toolbar
- Menu\_Button
- Explicit Registration of Events
- Top\_of\_Page
- Data\_Changed
- Onf1
- Onf4
- PRINT Events
- Node\_Double\_Click
- Node\_KeyPress
- Context\_Menu\_Request
- Splitter Control
- Displaying Images in ALV Reports using standard classes
- Tree Control

## ALV OBJECT MODEL

## STANDARD EVENT HANDLING in ALV Reports using Function Modules

- Standard Event handling Procedure
- Generating Heading using TOP\_OF\_PAGE
- Interactive ALV using USER\_COMMAND
- Displaying Images in ALV reports using Function Modules

**OBJECT ORIENTED ABAP COMPLETED**