



POWER OF SIMPLICITY

**Extending Tally.ERP 9 using TDL
Program Write Up**

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Extending Tally.ERP 9 using TDL

This training program is meant for programmers who intend to develop and deploy Tally extensions. The objective of this program is to provide the participants with a comprehensive knowledge on the development language of Tally.ERP 9 ie TDL(Tally definition Language). They will also be oriented with the development environment of TDL ie Tally Developer.

Who Should Attend?

This program is intended for the people who are interested in the business of developing extensions for the default product using TDL, to meet the business or functional needs of their customers.

The following are the prerequisites for the same.

1. Functional knowledge of Tally product
2. Working knowledge of Computers and basic file processing operations
3. Exposure to any programming language is an added advantage

Training Methodology

Instructor led classroom training, along with hands on practice. The participants will be taken through the concepts and usage syntax of each of the topics using PPT's and Demo codes. They will be given time to go through the Demo TDL's and do some Hands On Exercises during the session.

The Training Book and comprehensive set of Demo TDL's provided will enable them to learn, practice and apply the concepts taught during the session.

Take Away's

The participants will be provided with:

- The book "The Development Language of Tally.ERP 9"
- CD containing Demo TDL's and PPT's used during the training session.

Duration

5 Days Full Time

Program Highlights

- Introduction to TDL and its Components –Definitions, Attributes & Modifiers, Actions, DataTypes, Operators, Special Symbols and Functions
- Special Symbols & Prefixes
 - Usage of @ and @@
 - Usage of # and ##

- Usage of \$ and \$\$
 - Special symbols for Code Readability- ;, ;; and /**/,+
 - Special Symbols as Definition Modifiers-#,!,*
- Dimensions & Formatting
 - Dimensional Attributes
 - Alignment Attributes
 - Formatting Attributes
- Variables,Buttons and Keys
 - Attributes & Scope of a Variable
 - Adding a Button & Key
 - Introduction to Actions
- Objects & Collections
 - Object Structure,Types and Context
 - Object association
 - Collection-Types & Sources
 - Methods & Accessing Methods using Method Formula Syntax
 - Basic Collection Capabilities-Filtering,Sorting,Searching
 - Overview of Advanced Collection Capabilities-Extraction,Aggregation,Intergration using XML Collection etc
 - Detailed Object Structure for various Internal objects of Tally-In Appendix
- Actions in TDL
 - Categories of Actions
 - Action Association and Execution
 - Global Actions-Menu,Modify Object,Create,Alter,Create,Aletr,Display Collection etc
 - Object Specific Actions –Form,Part,Line and Field Actions
- User Defined Fields
 - Defining,Storing and Retrieving value from UDF
 - Usage of Subforms for UDF's
- Reports,Printing and Validation Controls
 - Creating various types of Reports –Tabular,Hierarchical,Column Based Reports
 - Printing Techniques and Page Breaks
 - Validation and Controls
- Voucher/Invoice Customization
 - Case Study Approach for Customizing the default Tally Screens to meet functinal Requirements
 - Case Study Approach for Invoice Print Customization

Session Break Up

Day 1	
Session	Topics Covered
Session 1:	<ul style="list-style-type: none"> • Introduction to TDL and its Components • Special Symbols & Prefixes
Session 2:	<ul style="list-style-type: none"> • Special Symbols & Prefixes • Hands On Practice
Session 3:	<ul style="list-style-type: none"> • Dimensions & Formatting
Session 4:	<ul style="list-style-type: none"> • Hands On Practice
Day 2	
Session	Topics Covered
Session 1:	<ul style="list-style-type: none"> • Variables
Session 2:	<ul style="list-style-type: none"> • Buttons & Keys • Hands On Practice
Session 3:	<ul style="list-style-type: none"> • Objects & Collections
Session 4:	<ul style="list-style-type: none"> • Hands On Practice
Day 3	
Session	Topics Covered
Session 1:	<ul style="list-style-type: none"> • Objects & Collections
Session 2:	<ul style="list-style-type: none"> • Hands On Practice
Session 3:	<ul style="list-style-type: none"> • Objects & Collections
Session 4:	<ul style="list-style-type: none"> • Hands On Practice
Day 4	
Session	Topics Covered
Session 1:	<ul style="list-style-type: none"> • Actions in TDL
Session 2:	<ul style="list-style-type: none"> • Hands On Practice
Session 3:	<ul style="list-style-type: none"> • User Defined Fields • Hands On Practice
Session 4:	<ul style="list-style-type: none"> • Reports
Day 5	
Session	Topics Covered
Session 1:	<ul style="list-style-type: none"> • Hands On Practice
Session 2:	<ul style="list-style-type: none"> • Printing, Validation Controls • Hands On Practice
Session 3:	<ul style="list-style-type: none"> • Voucher & Invoice Customization
Session 4:	<ul style="list-style-type: none"> • Hands On Practice

Program Outcome

At the end of the Training Program Participants will be able to

- Create reports in user defined formats and layouts
- Create reports displaying the retrieved data from Tally Database
- Designing customized entry screens to store and modify data in Tally Database
- Perform various data manipulation operations like getting specific data, ordering data etc
- Store additional information into the Tally Database
- Design invoices and print in a format as desired by the user
- To develop complete solutions on Tally Platform