



**POWER OF SIMPLICITY**

**TDL Enhancements for Tally.ERP 9**  
**Program Write Up**

## **TDL Enhancements for Tally.ERP 9**

The training program is especially designed to provide a comprehensive orientation towards the latest enhancements in TDL for Tally.ERP 9. On successful completion of this program, the users will be able to deploy and use these enhancements to develop faster and efficient solutions without much of programming efforts.

### **Who Should Attend?**

This program is intended for the people who are in the business of providing Tally extensions using TDL, to meet the business or functional needs of their customers. The following are the prerequisites for the same.

1. Familiarity and Applicability of TDL concepts
2. Development Exposure using TDL

### **Training Methodology**

Instructor led classroom training, along with hands on practice.

### **Take Away's**

The participants will be provided with:

- The book “TDL Enhancements for Tally.ERP 9”
- CD containing Demo TDL's and PPT's used during the training session

### **Duration**

5 Days Full Time

### **Program Highlights**

- Attributes & Modifier Enhancements
  - Behavioral Changes for Attribute Modifiers(Add/Delete/Replace/Local/Use)
  - New Attribute Modifier-Switch
  - Behavioral Changes for Attribute Set As and Info-Field Definition
  - New Attributes-Set By Condition, ToolTip-Field Definition
  - New Attribute Scope –Key Definition
- Usage of Special Symbols ( #,\* ,/\* \*/)
- Enhanced Method Formula Syntax with Relative Object Specification
- Enhancements –Object Association
- Object Access via Interface Object using Access Name
- Bracket Support

- Actions Enhancements
  - Enhancements in Key Actions
  - New Actions - Modify Object, Browse URL and HTTP Post ...
- Tally Command Line Parameters
- User Defined Functions in TDL
- Enhanced Collection Capabilities
  - Aggregation & Reporting
  - HTTP XML Collection (GET & POST with and without Object Specification)
  - Usage As Tables
  - Dynamic Object support for HTTP-XML Information Interchange
  - New Attributes- ComputeVar, Source Var, Filter Var
  - Attribute-Data Source Changes
- Writing Remote Compliant Reports
  - TDL in a Client Server Environment
  - TDL Enhancements at Collection, Report and Function for Remote
  - Writing TDL's for Remote
- TDL Enhancements-Release 1.5 Onwards
  - Collection Enhancements
    - Data Source Report, Parent Report
    - Attributes-Source Var, Filter Var, Compute Var
    - Loop Collection, Keep Source ().
  - Dynamic Actions
  - List Variables
  - User Defined Function Enhancements
    - Looping Constructs Introduced-For Range, For In ,For Collection ,For Token etc
    - New Action-Log Object, Log Target
  - New Functions
  - New Attributes
- TDL Enhancements-Release 1.52 Onwards
  - Data Source at collection
  - HTTPS support in Tally
- TDL Enhancements-Release 1.6 Onwards
  - Programmable Configurations for Actions
  - New Functions
  - User Defined Function Enhancements
- TDL Enhancements-Release 1.61 Onwards
  - Reducing Table Search
- TDL Enhancements-Release 1.8 Onwards
  - Event Framework
  - Collection Enhancements
    - External Plug-ins
    - Unique attribute at collection

- Variable as data source
- Changing Object Context
- Variable framework with Compound Variables
- Licensing Binding Mechanism
- TDL Enhancements-Release 2.0 Onwards
  - TDL Procedural Enhancements
    - File IO capabilities
    - Function Parameter Optional
  - Variable Framework Enhancements
  - Event Framework Enhancements
  - Action Enhancements
    - Refresh Data
    - Sleep
    - Copy File
  - TDL Enhancements for Remoting
    - Fetch Object – Enhancement
    - Fetch Values
    - Multi Objects
    - Modifies
    - Parm Var – Collection Attribute
- TDL Enhancements – Release 3.0 Onwards
  - Collection Enhancements
    - Walk Ex – Attribute introduced
    - Directory as Data Source
  - Image Printing Capabilities
    - Graph Type – Part Level attribute enhanced
    - Resource – New Definition Type introduced
  - Enhanced Columnar Capability
    - Columnar Reports in General
    - Enhanced capability for Columnar Reporting
  - System Scope variables persisting in User Defined File
    - Action – Save Variable
    - Action – Load Variable
  - New Events Introduced
    - Import Events
    - Export Events
  - Actions enabled for Programmable Configuration
  - Optional Default TDL loading
  - Refresh issues in context of User Defined Functions Evaluation
  - Function and Attribute Enhancements

## Session Break Up

Day 1	
Session	Topics Covered
Session 1:	<ul style="list-style-type: none"> <li>TDL Refresher Session <ul style="list-style-type: none"> <li>Attributes &amp; Modifier Enhancements</li> <li>Usage of Special Symbols ( #, * ,/* */ )</li> <li>Enhanced Method Formula Syntax</li> <li>Bracket Support</li> <li>Actions Enhancements</li> </ul> </li> </ul>
Session 2:	<ul style="list-style-type: none"> <li>Enhancements –Object Association</li> <li>Object Access via Interface Object using Access Name</li> <li>Hands On Practice</li> </ul>
Session 3:	<ul style="list-style-type: none"> <li>Enhanced Collection Capabilities(Aggregation &amp; Extraction)</li> <li>Enhanced Collection Capabilities(Indexing &amp; Searching)</li> <li>Hands On Practice</li> </ul>
Session 4:	<ul style="list-style-type: none"> <li>New Collection Attributes &amp; Changes</li> <li>Hands On Practice</li> </ul>
Day 2	
Session	Topics Covered
Session 1:	<ul style="list-style-type: none"> <li>Refresher Session of Collection Capabilities</li> <li>HTTP XML Collection</li> <li>Usage As Tables</li> <li>Writing Remote Compliant Reports</li> </ul>
Session 2:	<ul style="list-style-type: none"> <li>Enhancements at Collection level for Remote</li> <li>Hands On Practice</li> </ul>
Session 3:	<ul style="list-style-type: none"> <li>User Defined Functions in TDL</li> <li>Hands On Practice</li> </ul>
Session 4:	<ul style="list-style-type: none"> <li>User Defined Functions in TDL</li> <li>Hands On Practice</li> </ul>
Day 3	
Session	Topics Covered
Session 1:	<ul style="list-style-type: none"> <li>TDL enhancements-Release 1.5 Onwards</li> <li>Hands On Practice</li> </ul>
Session 2:	<ul style="list-style-type: none"> <li>TDL enhancements-Release 1.5 Onwards</li> <li>Hands On Practice</li> <li>TDL enhancements-Release 1.52 Onwards</li> </ul>
Session 3:	<ul style="list-style-type: none"> <li>TDL enhancements-Release 1.6 Onwards</li> <li>Hands On Practice</li> </ul>
Session 4:	<ul style="list-style-type: none"> <li>TDL enhancements-Release 1.61 Onwards</li> <li>Hands On Practice</li> </ul>

Day 4	
Session	Topics Covered
Session 1:	<ul style="list-style-type: none"> <li>TDL enhancements-Release 1.8 Onwards</li> </ul>
Session 2:	<ul style="list-style-type: none"> <li>TDL enhancements-Release 1.8 Onwards</li> <li>Hands On Practice</li> </ul>
Session 3:	<ul style="list-style-type: none"> <li>TDL enhancements-Release 2.0 Onwards</li> </ul>
Session 4:	<ul style="list-style-type: none"> <li>TDL enhancements-Release 2.0 Onwards</li> </ul>
Day 5	
Session	Topics Covered
Session 1:	<ul style="list-style-type: none"> <li>Refresher session on TDL enhancements-Release 2.0 Onwards</li> <li>Hands On Practice</li> </ul>
Session 2:	<ul style="list-style-type: none"> <li>TDL enhancements-Release 3.0 Onwards</li> <li>Hands on Practice</li> </ul>
Session 3:	<ul style="list-style-type: none"> <li>TDL enhancements-Release 3.0 Onwards</li> </ul>
Session 4:	<ul style="list-style-type: none"> <li>Hands On Practice</li> <li>Feedback &amp; Query Solving</li> </ul>

## Program Outcome

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

- Create complex reports by writing only a few lines of code
- Improve the performance of the existing reports by applying the new enhancements
- Have a more structured approach towards developing solutions
- Create reports using data available in XML format over HTTP
- Write Procedural Codes using TDL functions to achieve complex results and update Tally Database at the click of a button.
- Create reports which can be accessed by an authenticated Remote User
- TDL Enhancements-Release 1.5 Onwards