



**LEARN WELL
TECHNOCRAFT**

ETL TESTING SYLLABUS

8th year of Accomplishments

AUTHORIZED GLOBAL CERTIFICATION CENTER FOR MICROSOFT,
ORACLE, IBM, AWS AND MANY MORE.

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ACHIEVEMENTS FROM TRAINING

- *CANDIDATE WILL BE ABLE TO SHOW 2-3 YEARS EXPERIENCE AFTER TRAINING.*
- *REAL TIME SCENARIOS, CASE STUDIES, PROJECTS INCLUDED.*
- *REAL TIME DATA PROVIDED FOR PRACTICE.*
- *SOFTWARE WILL BE INSTALLED ON CANDIDATES MACHINE.*
- *INDIVIDUAL 1 ON 1 DISCUSSIONS FOR RESUME MODIFICATIONS.*
- *LEARN FROM INDUSTRY EXPERTS.*
- *GLOBAL CERTIFICATION PREPARATION.*
- *APPEAR FOR GLOBAL CERTIFICATION AT LEARN WELL TECHNOCRAFT ITSELF.*
- *GET DISCOUNTED CERTIFICATION VOUCHERS.*
- *AUTHORIZED GLOBAL CERTIFICATION CENTER FOR PEARSON, PSI, KRYTERION.*

ETL Testing Syllabus

Note: Informatica as an ETL tool is most important aspect of ETL Testing training. We have added Informatica tool training in ETL Testing. You will learn ETL development and testing also in this course. For every part of ETL development, you will learn how to do testing.

ETL/Data-warehousing Testing

ETL Testing VS Manual Testing

- Similarities and Differences
- Advantages of ETL testing
- Requirement of ETL tester
- Responsibility of ETL tester
- ETL testing methodology in Industry

Datawarehousing and ETL in Testing perspective

- Datawarehousing concepts
- ETL(Informatica) concepts
- Datawarehousing testing
- ETL testing

SQL in ETL Testing perspective

- SQL concepts Advantages of ETL testing
- Special SQL commands for ETL testing Responsibility of ETL tester
- Special SQL queries for ETL testing
- SQL query tuning

Unix in ETL Testing perspective

- Unix concepts
- Unix commands for ETL testing
- Using Unix for ETL testing

Documentation

- BR document
- SR document
- DA specification document
- Test plan preparation
- Test Bed preparation
- Test summary and Status Report

ETL testing specifications

- Test data creation strategy
- Test case Design
 1. Column Level
 2. Scenario Based
 3. Code Integration related test cases
 4. Functionality based test cases
 5. Extract based test cases
- Extract Testing
- Load testing
- RTM creation
- Purpose of Training
- Types of Testing
- Unit Testing
- System Testing
- Unit Acceptance Testing
- Production Testing
- Regression Testing
- White Box Testing
- Black Box Testing
- Manual Testing
- Automation Testing

Data warehousing Syllabus

Administrator Guide:

- Understanding Domains Using Administration Console
 - Managing the Domain
- Managing Users and Groups
- Managing Privileges and Roles Creating and Configuring the Repository Services
- Managing the Repository Creating and Configuring Integration Services
- Enabling and Disabling the Integration Services Integration Services
- Architecture Managing License

Advanced Workflow Guide:

- Stopping and Aborting
 - o Error Handling
 - o Stopping and Aborting Workflows
- Concurrent Workflows
- Workflow Variables
- Parameter and variables in Sessions
- Parameter File Session Caches
- Incremental Aggregation
- Session Log Interface

Designer Guide:

- Using the Designer
- Working with Sources
 - o Working with Relational Sources
- Working with Flat Files
 - o Importing Flat Files
 - o Formatting Flat Files Column
- Working with Targets
- Mappings
- Mapping Parameters and Variables
- Working with User-Defined Functions
- Using Mapping Wizard
- Naming Conventions

Performance Tuning Guide:

- Performance Tuning Overview
- Bottlenecks
- System Bottleneck

Repository Guide:

- Understanding the Repository
- Using Repository Manager
- Folders
- Managing Object Permissions
- Working with Versioned Objects
- Exporting and Importing Objects
- Copying Objects

Transformation Guide:

- Working with Transformations
 - Configuring Transformations
 - Working with Ports
 - Working with Expressions
 - Reusable Transformations
- Aggregator Transformation
- Custom Transformation
- Expression Transformation
- External Transformation
- Filter Transformation
- Joiner Transformation
- Java Transformation
- Lookup Transformation
- Lookup Caches Normalizer Transformation
- Rank Transformation
- Router Transformation
- Sequence Generator Transformation
- Sorter Transformation
- Source Qualifier Transformation
- SQL Transformation
- Stored Procedure Transformation
- Transaction Control Transformation
- Union Transformation
- Update Strategy Transformation

Transformation Language Reference:

- The Transformation Language
- Constants
- Operators
- Variables
- Dates
- Functions
- Creating Custom Function

Workflow Basics Guide:

- Workflow Manager
- Workflow and Worklets
- Sessions
 - Creating a Session Task
 - Editing a Session
 - Pre- and Post- Session Commands
- Session Configuration Objects
- Tasks

Working with Flat Sources

- Targets
 - Configuring Targets in a Session
 - Working with Relational Targets
 - Working with File Targets
 - Reject Files
- Validation
- Sending Email
 - Working with Email Tasks
 - Working with Post-Session Email
- Workflow Monitor
 - o Using Workflow Monitor
 - o Customizing Workflow Monitor Options
 - o Working with Tasks and Workflows
 - o Using Gantt Chart View and Task View Workflow Monitor Details
 - o Integration Services Properties o Workflow Run Properties
 - o Worklet Run Properties
 - o Session Task Run Properties
 - o Performance Details Session and Workflow Logs

Note: Lab sessions for all the points mentioned above will be taken.

Data warehousing Syllabus

- Evolution of Datawarehousing - History
- The need of Datawarehousing
- Why Datawarehousing
- What is Datawarehousing – The Definition
 - o Subject -Oriented
 - o Integrated
 - o Non – Volatile
 - o Time Varying

Datawarehousing Architecture

- o Data Source Layer
- o Data Extraction Layer
- o Staging Layer
- o ETL Layer
- o Data Storage Layer
- o Data Logic Layer
- o Data Presentation Layer
- o Metadata Layer
- o System Operation Layer

Dimension table

Fact table

- o Additive Facts
- o Semi Additive Facts
- o Non – Additive Fact
- o Cumulative
- o Snapshot

Attribute

Hierarchy

Types of Schema

- o Star Schema
- o Snow Flake Schema
- o Fact Constellation Schema

Slow Changing Dimension

- o SCD1 – Advantages/ Disadvantages
- o SCD2 – Advantages/ Disadvantages
- o SCD3 – Advantages/ Disadvantages

OLAP and OLTP

- - Difference between OLAP and OLTP
- - Types Of OLAP
 - o Multi-Dimensional (MOLAP)
 - o Relational(ROLAP)
 - o Hybrid(HOLAP)

Also Available

- Internships - Paid / Free
- Internship certifications on successful completion
- Final year Collage Projects on Latest Skills
- Special Project batches
- Collage Seminars