



QA Training Hub (QTH)

Quality Never Fails



ETL Testing

Online Course with
Banking/Insurance/
e-Commerce Projects.



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Module 1: DWH - Data Ware Housing Concepts

- > What is Data Warehouse?
- > Need of Data Warehouse
- > Introduction to OLTP, ETL and OLAP Systems
- > Difference between OLTP and OLAP
- > Data Warehouse Architecture
- > Data Marts
- > ODS [Operational Data Store]
- > Dimensional Modelling
- > Difference between relation and dimensional modelling
- > Star Schema and Snowflake Schema
- > What is fact table?
- > What is the Dimension table?
- > Normalization and De-Normalization



Module 2: ETL Testing

- > ETL architecture
- > What is ETL and importance of ETL testing?
- > How DWH ETL Testing is different from the Application Testing?
- > SDLC/STLC in the ETL Projects (ex: V Model, Water fall model)



Module 3: Challenges in DWH ETL Testing compare to other testing

- > Incompatible and duplicate data
- > Loss of data during ETL process
- > Testers have no privileges to execute ETL jobs by their own
- > Volume and complexity of data is very huge
- > Fault in business process and procedures
- > Trouble acquiring and building test data

Module 4: ETL Testing Work flow activities involved

- > Analyze and interpret business requirements/ workflows to Create estimations
- > Approve requirements and prepare the Test plan for the system testing
- > Prepare the test cases with the help of design documents provided by the developer team
- > Execute system testing and integration testing

Module 5: Best practices to Create quality documentations

(Test plans, Test Scripts, and Test closure summaries)

- > How to detect the bugs in the ETL testing
- > How to report the bugs in the ETL testing
- > How to co-ordinate with the developer team for resolving the defects

Module 6: Types of ETL Testing

- > Data completeness.
- > Data transformation.
- > Data quality.
- > Performance and scalability.
- > Integration testing.
- > User-acceptance testing.
- > SQL Queries for ETL Testing
- > Incremental load testing
- > Initial Load / Full load testing



Module 7: Different ETL tools available in the market

- > Informatica
- > Ab Initio
- > IBM Data stage

Module 8: Power Center Components

- > Designer
- > Repository Manager
- > Workflow Manager
- > Workflow Monitor
- > Power Center Admin Console

Module 9: Informatica Concepts and Overview

- > Informatica Architecture

Module 10: Sources

- > Working with relational Sources
- > Working with Flat Files

Module 11: Targets

- > Working with Relational Targets
- > Working with Flat file Targets

Module 12: Transformations Active and Passive Transformations

- > Expression
- > Lookup Different types of lookup Caches
- > Sequence Generator
- > Filter
- > Join
- > Stored Procedure

Module 13: Slowly Changing Dimension

- > SCD Type1
- > SCD Type2
- > Date, Flag and Version
- > SCD Type3



Module 14: Workflow Manger

- > Creating Reusable tasks
- > Workflows, Worklets & Sessions
- > Tasks
- > Session
- > Decision task
- > Control Task
- > Event wait task



Module 15: Timer task

- > Monitoring workflows and debugging errors
- > Indirect Loading
- > Constraint based load ordering
- > Target Load plan
- > Worklet
- > Migration ?ML migration and Folder Copy.
- > Scheduling Workflow
- > Parameter and variables
- > XML Source, Target, and Transformations

Module 16: Performance Tuning

- > Pipeline Partition
- > Dynamic Partition
- > Pushdown optimization
- > Preparation of Test Cases
- > Executing Test case
- > Preparing Sample data
- > Data validation in Source and target
- > Load and performance testing
- > Unit testing Procedures
- > Error handling procedures



More about Placements***

- > Resume preparation
- > Mock Interviews
- > Interview Tips & Tricks
- > How to fill academic and professional gap
- > Placement Assistance **
- > Cracking Interview

Our Trainees are successfully placed in



What people say

"He understood my testing training needs, and suggested a custom online training program. The fee was very nominal, when compared to other testing training institutions. I am half way on my completion of the SAP Testing program, and hope to complete the program this Summer end. I sincerely acknowledge the ready-to-help nature of the knowledgeable staff there. I wish the best to Dinesh sir and the staff at QA Training Hub."

Sheetal Verma - Mumbai West, Maharashtra - ★★★★★

"I started Googling for testing trainers in different metros of India. I found QA Training Hub, which is based in Hyderabad. Wonderfully, they were offering online programs in testing tools. I suggested to my daughter to give a try, she did promptly. It was really unexpected for her and me. In the first session itself, which was more in the nature of a demo, her doubts and questions were answered by Dineshji. He and his trainers are the best lot, my daughter says. It is nice that we got a good institution and a knowledgeable teacher to guide my daughter in testing tools. Best wishes to the team at QA Training Hub."

Dr Ravi Malhotra - New Mogul Apartments, Lucknow (Main) UP - ★★★★★

"We met him at their Hyderabad premises, he noted our testing needs and their critical role in achieving project completion. He made an evaluation of our testing process, and the competencies of our testing staff. He suggested us a custom corporate training program, which was to be held in-house. Dinesh was very kind enough to visit the premises and train our staff in the details of testing tools. Now, our staff is much better than they were before. We wish Dinesh and his team at QA Training Hub the very best in all their testing training endeavours."

Rajesh Verma - Ven Star Solutions Pvt Ltd, Bangalore, Karnataka - ★★★★★