## ETL Testing Course Details

By **Besant Technologies**

<table>
<thead>
<tr>
<th>Course Name</th>
<th>ETL Testing (Informatica)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Category</td>
<td>Software Testing</td>
</tr>
<tr>
<td>Venue</td>
<td>Besant Technologies</td>
</tr>
<tr>
<td>Address</td>
<td>No.24, Nagendra Nagar, Velachery Main Road, Velachery, Chennai – 600 042</td>
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<tr>
<td></td>
<td>Landmark – Opposite to Phoenix Market City</td>
</tr>
<tr>
<td>Official URL</td>
<td><a href="#">ETL Testing Training</a></td>
</tr>
<tr>
<td>Demo Classes</td>
<td>At Your Convenience</td>
</tr>
<tr>
<td>Training Methodology</td>
<td>20% Theory &amp; 80% Practical</td>
</tr>
<tr>
<td>Course Duration</td>
<td>30-35 Hours</td>
</tr>
<tr>
<td>Class Availability</td>
<td>Weekdays &amp; Weekends</td>
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### For Demo Class

Call - +91-996 252 8293 / 94  
Email ID – [besanttech@gmail.com](mailto:besanttech@gmail.com)

### Why Besant Technologies?

- Training by highly experienced and certified professionals
- No slideshow (PPT) training, fully Hand-on training
- Interactive session with interview QA’s
- Real-time projects scenarios & Certification Help
- Most competitive & affordable course fees
- Placement support for all courses
- List of established & satisfied clients & students ([Visit our website for reviews](#)).
ETL Testing Training Outline

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 Dimension table
- Normalization and De-Normalization

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)
- 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.
- 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.
  - 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 developer team for resolving the defects

- 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
- Different ETL tools available in the market
  - Informatica
  - Ab Initio
  - IBM Data stage

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

- Informatica Concepts and Overview
  - Informatica Architecture.

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

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

- Transformations - Active and Passive Transformations
  - Expression
  - Lookup --Different types of lookup Caches
  - Sequence Generator
  - Filter
  - Joiner
  - Sorter
  - Rank
  - Router
  - Aggregator
  - Source Qualifier
  - Update Strategy
  - Normalizer
  - Union
  - Stored Procedure
  - Slowly Changing Dimension
    - SCD Type1
    - SCD Type2 -- Date, Flag and Version
    - SCD Type3

- Workflow Manager
Creating Reusable tasks

- Workflows, Worklets & Sessions

Tasks
  - Session
  - Decision task
  - Control Task
  - Event wait task
  - Timer task

- Monitoring workflows and debugging errors

- Indirect Loading
- Constraint based load ordering
- Target Load plan
- Worklet, Mapplet, Resuable transformation
- Migration –XML migration and Folder Copy.
- Scheduling Workflow
- Parameter and variables
- XML Source, Target and Transformations
- 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.