**Software quality assurance (SQA) consists of a means of monitoring the software engineering processes and methods used to ensurequality. The methods by which this is accomplished are many and varied, and may include ensuring conformance to one or more standards, such as ISO 9000 or a model such as CMMI.**

**ETL Testing Process:**

Similar to any other testing that lies under Independent Verification and Validation, ETL also go through the same phase.

* Business and [requirement understanding](http://www.softwaretestinghelp.com/how-to-test-software-requirements-specification-srs/)
* Validating
* [Test Estimation](http://www.softwaretestinghelp.com/software-test-estimation-how-to-estimate-testing-time-accurately/)
* [Test planning](http://www.softwaretestinghelp.com/test-plan-sample-softwaretesting-and-quality-assurance-templates/) based on the inputs from test estimation and business requirement
* [Designing test cases](http://www.softwaretestinghelp.com/how-to-write-effective-test-cases-test-cases-procedures-and-definitions/) and test scenarios from all the available inputs
* Once all the test cases are ready and are approved, testing team proceed to perform pre-execution check and [test data preparation](http://www.softwaretestinghelp.com/tips-to-design-test-data-before-executing-your-test-cases/) for testing
* Lastly execution is performed till exit criteria are met
* Upon successful completion summary report is prepared and closure process is done.

Database testing is done using smaller scale of data normally with OLTP (Online transaction processing) type of databases while data warehouse testing is done with large volume with data involving OLAP (online analytical processing) databases.

<http://www.pqatesting.com/our_ideas/blog/etl_and_data_warehouse_testing/>

**ETL Testing** Use Cases. Production Validation **Testing** (**testing** data before moving into production). Sometimes called “table balancing” or “production reconciliation,” this type of **ETL testing** is done on data as it is being moved into production systems.

<https://www.informatica.com/etl-testing.html#fbid=EYa5spWoVnJ>

<http://www.guru99.com/utlimate-guide-etl-datawarehouse-testing.html>

What are ETL tester responsibilities?

This question is specific to those looking to take on the role of ETL tester. It will require the same knowledge as those who run the ETL system, but may also require knowledge about double-checking the system and how to go about that process.

An ETL tester is responsible for writing SQL queries for various scenarios. They run a number of tests including primary key, duplicate, default, and attribute tests of the process. In addition, they are in charge of running record count checks as well as reconciling records with source data. They also confirm the quality of the data and the loading process overall.

http://etltestingtutorial.com/etl-tutorial/free-etl-videos/introduction-to-datawarehousing/