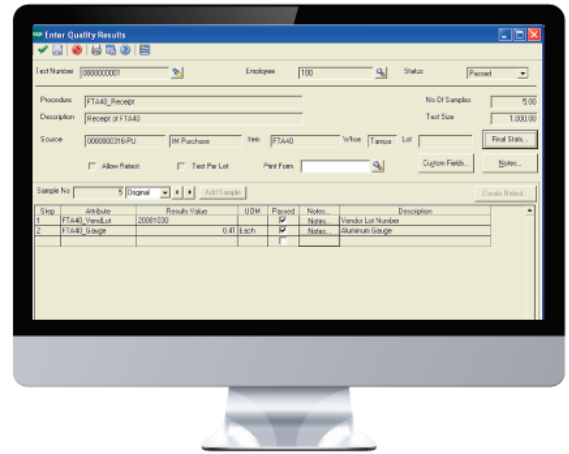




ANYTIME 500 QUALITY MANAGEMENT

Integrated Quality Management for Distributors and Manufacturers.

World-class organizations strive to continually improve product quality to gain market share while fending off foreign competitors. With shrinking margins and increased compliance mandates, quality has become one of the most critical business issues. This is confirmed in almost every quality study conducted in the past few years.

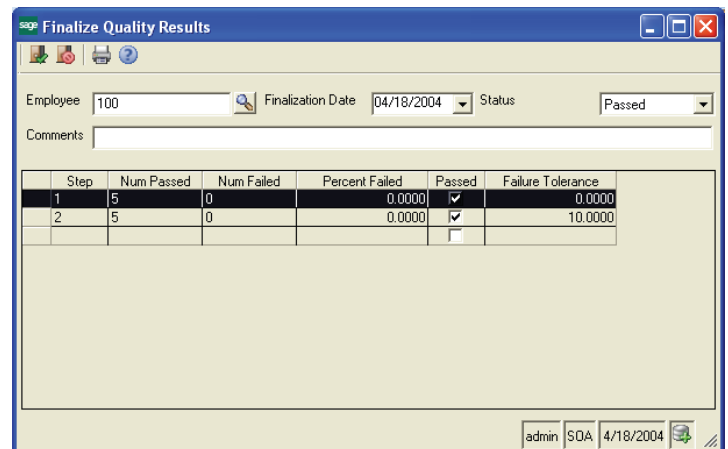


Quality mandates issued by large customers or by federal entities such as the FDA and USDA are no longer optional and it is getting tougher to remain in compliance without a completely integrated quality control solution.

Quality Management helps companies improve product quality while remaining in compliance with customer and federal requirements.

Quality Management, coupled with Document Control makes compliance with ISO/QS/TS 9000 a breeze since quality data and procedures are secured and managed within Sage 500 ERP applications. Further, Quality Management is a keystone for Total Quality Management (TQM) and Six Sigma which are becoming increasingly popular.

Quality Management helps you define attributes, standardize test procedures, and record quality test results for analysis and reporting. Quality tests may be conducted randomly or for any inventory or manufacturing labor transaction in Sage 500 ERP such as receipts, returns, bin or warehouse transfers, labor entry, inventory adjustments, physical inventory counts, etc.





Product Features

Attribute Definition

Attributes are user-defined elements utilized in quality control tests. Attributes define specific qualities of an item such as weight, length, volume, color, style, etc. There may be many different values for each attribute. Attribute values are captured during quality test results entry for specific samples or lots. Attributes may be one of four types – numeric, list, date, or text.

Attribute Descriptions

Short and long descriptions are available to define each attribute. The short description is 20 characters with a 50 character long description.

Unit of Measure

The Unit of Measure for any attribute is defined so that test results are entered in relation to the required unit of measure. This is helpful if an attribute value could be represented using multiple units of measure such as liters or gallons, feet or meters, volt or kilovolt, etc. The unit of measure is defined and used as a label for test results entry.

Numeric Attributes

Numeric attributes are measured based on a user-defined, numeric value or range. Numeric attributes are commonly used for attributes such as area, volume, length, width, depth, density, amps, watts, ohms, volts, temperature, frequency, luminance, etc.

Numeric Ranges

Numeric attributes are commonly measured against a valid range with a target value and upper and lower threshold to define acceptable ranges. For example, the target value for a length attribute might be 2.0000 with a valid range of 1.9500 to 2.1500 to define the valid or acceptable range.

Numeric Resolution

Numeric attributes may require a specific decimal precision or resolution. For example, you may require that test results be entered for up to 8 places to the right of the decimal point to ensure that recorded data is captured and reported as precise as possible.

Industries

- Wholesale Distribution
- Manufacturing
- Testing Laboratories

Required Modules

- Inventory Management (Sage)

Integrated Modules

- Purchase Order (Sage)
- Sales Order (Sage)
- Inventory Management (Sage)
- Warehouse Management (Sage)
- Light Manufacturing (Sage)
- Advanced Manufacturing (Sage)
- Shop Floor Control (Sage)
- Engineering Change Orders (e2b)
- Document Control (e2b)
- Batch Process Prod. Entry (e2b)
- Enhanced Labor Entry (e2b)
- Enhanced Work Order (e2b)

Benefits

- Attribute Definition for numeric, date, list, and text values
- Lot Characteristics created from Quality Test Results
- Quality Tests may be related to Lots but lot tracking is not required
- Integrated with any inventory transaction or manufacturing labor transaction
- Define multi-step Test Procedures

ClientCare Plans

- Free Upgrades and Hot Fixes
- Unlimited Product Support
- Installation Assistance & Training



List Attributes

A list of unlimited attribute values may be defined and used during quality test results entry. Lists are commonly used for a pre-defined list of values or options. Common list attributes are color, style, model, version, grade, size, etc.

List Attribute Values

Attributes comprising a validated list may include unlimited values. Any list attribute value may be defined for pass or fail result. For example, a quality test may be conducted for the attribute "Grade" such that "Grade A" and "Grade B" values result in a passed test while "Grade C" and other values result in a failed test. One value can optionally be set as the default value in test results entry.

Date Attributes

Date attributes define a specific date or timeframe for attributes such as lot creation date or lot expiration date. For example, a vendor lot creation date may result in a failed test if it is older than 30 days compared to the receipt date.

Text Attributes

Text attributes are used to record additional information during quality test results entry. This can be used very effectively for many different applications such as capturing the vendor lot number which can then be tracked as a lot characteristic.

Overall Fail Tolerances

Define overall fail tolerances for an attribute. For example, if less than 10% of the test sample fails the quality test then the entire transaction will be recorded as passing the test procedure but if more than 10% of the sample fails then the entire transaction will fail.

Default Values

Set a default value for attributes such as list or numeric values. Defaults are optional and can be used in scenarios where values are relatively consistent across quality tests.

Lot Characteristics

Any attribute can be used as a lot or serial characteristic. The values recorded during Quality Test Results Entry for the specified attributes become characteristics of the inventory lot or serial number. Lot or serial tracking is required for attributes designated as characteristics.

Test Procedures

Test Procedures define how and when to perform quality test results. You may have an unlimited number of test procedures with a single or multiple steps. Test procedures may apply to any number of items, routings, or for specific inventory transactions. Procedures may be marked as active or inactive so that you can identify current, approved test procedures while retaining history for, phased-out procedures.



Test Samples

Test Procedures define the sample size for quality testing. Sample sizes may be defined by quantity or by percentage. For example, test 5 pieces or test 5% based on the inventory transaction quantity.

Test Per Lot/Serial

Test Procedures may be required for every lot or serial transaction. For example, require a quality test for every lot receipt for a specific item or item/warehouse or for every serial number produced from a specific routing.

Retest

Test procedures support retesting where samples may be retested to validate that the initial test results were accurate or in situations where quick manual changes can correct issues related to the item or sample to bring it into compliance (such as calibrating a piece of equipment or adjusting a setting on a device). Retesting is permitted during Quality Test Results Entry only for procedures flagged as "Allow Retest."

Procedure Forms

Test Procedure Forms are maintained in Common Information and defined for specific Quality Test Procedures. You may have many different test procedure forms that are used for different types of tests.

Items / Warehouses

Test Procedures may be defined for specific items across warehouses or for items in a specific warehouse. Further, test procedures are defined for single or multiple items.

Inventory Transactions

Test Procedures may be linked to a specific type of inventory transaction by item or by item and by warehouse. All inventory transactions in Sage 500 ERP are available for quality test procedures. These include sales, returns, purchases, purchase returns, transfers (in or out), material issues, physical counts, inventory adjustments, kits (assembly or disassembly), bin transfers, customer shipments, customer returns, labor progress transactions, and more.

Routings

Test Procedures are assigned to a labor step as defined by routing version. The test procedure can be linked to multiple steps within the same routing version or to any number of routings within the system.

Test Frequency

Test frequency may be defined for manufactured items. The frequency may be based on a fixed quantity of parts produced or by percentage. For example, create a quality test for every 100 parts produced. If the sample size is defined as 5 parts and the work order is for 1000 units then 10 tests will be required ($1,000/100 = 10$) for 5 parts per test (sample size per test).

Procedure Status

Quality Test Procedures may be marked as active or inactive. Procedures linked to specific items, routings, and inventory transactions may also be marked as active or inactive within the procedure.



Test Creation

Quality tests may be created automatically by transaction type as defined by Quality Test Procedure. For example, a test can be created automatically whenever a receipt is entered for a specific item and warehouse. Tests may also be manually created on-the-fly for any inventory transaction. For manufactured items, all tests can be created manually, created automatically during work order creation, or generated based on a labor entry transaction. Quality Test Procedure Forms may be printed when tests are generated from Work Order Creation.

Test Results Entry

Quality Test Results are entered against a unique test number along with the Employee ID for the person reporting the test results. Test procedure details are displayed along with procedure notes to provide additional information such as procedure form, number of samples, test size, and more. Test results may be entered for each sample for all required test procedure steps. In addition, the source for each test is displayed for tracking, reporting, and analysis. For example, a test source could be a Work Order Step, Receipt, Bin Transfer, or another transaction.

Finalize Test

Finalize Test compares the Quality Test Results for all samples against the defined values required for a "pass" or "fail." The Quality Results screen displays the test status as New, In-Process, Passed, or Failed. Once Finalized, users can review test results by clicking on the button which is changed to Final Stats.

Custom Fields

User-defined, custom fields are available for Quality Test Procedures and Quality Test Results Entry. Custom fields can be used to capture additional information and for reporting and data analysis. Custom fields may be free-form text, numeric, date, or a validated list.

Notes

Notes may be entered for attributes. Attribute notes are copied forward to test procedures but may be edited by procedure. Test procedure notes are available at the header and step level. Test procedure notes are copied to Quality Test Results Entry and used to review instructions or to capture additional information.

SPC Data

SPC-related data including min/max values, mean, and average results are calculated and available for inquiries, reports, and further data analysis.

Test Results Data

Test Results Data may be viewed from the Quality Test and Quality Test Final Results Business Insights Explorer tasks. Details for each test and test results may be filtered, sorted, and reformatted for viewing online.

Document Tracking

Quality Management may be integrated with the e2b Document Control module to manage quality control documentation including test procedures, ISO policies, and more. Document Control provides audit capabilities with revision tracking and check-in and check-out capabilities ensuring that proper control is placed on documents or files.



As-Found, As-Left

Retesting allows users to enter one set of test results to indicate the status of test item characteristics "as found" or in their original condition. They can then make adjustments or repairs and enter retest data to indicate the final status of the item "as-left." This is important in many different industries such as gauge calibration where the initial, out-of-spec results of the gauge can be recorded and the gauge can be calibrated or adjusted to ensure that the final condition falls within an acceptable tolerance.

Workflow

New quality tests display in Business Insights Explorer. Quality personnel can quickly sort and/or filter the data to identify new tests.

The image displays three overlapping screenshots of the 'Maintain Quality Procedures' software interface. Each window shows the same form with fields for Procedure ID, Description, Sample Type, and Sample Size. The bottom-most window is open to the 'Items' tab, showing a table with columns for Item, Whse, Active, and Description.

Item	Whse	Active	Description
M-UBC12	Tampa	<input checked="" type="checkbox"/>	Black Dye BV-33633
M-UGC12	Tampa	<input checked="" type="checkbox"/>	Green Dye GV-63591



Explore - Quality Test

File Edit View Preview Drill Into Analyze Manage Insights Tools Window Help

Setting Standard

Explore Quality Test

Preview

- Test Detail
- Test Results
- Test Results Final Stats

TestNo	Status	Test Source	Source Type	Item	Description	Warehouse	Employee	Employee Name	TestSize	Sample Type	SampleSize	NoOfSamples	Frequency Type	FrequencySize
000000001	Passed	000000316-PU	IM Purchase	FTA40	Receipt of FTA40	Tampa	100	Indiana Jones	1000.00000000	Quantity	5.00000000	5	Quantity	0.00000000
000000003	New	00001045-0000	Work Order	FBA-1	Aluminum Blade	Tampa			1011.00000000	Percentage	5.00000000	50	Percentage	100.00000000
000000004	New	00001045-0000	Work Order	FBA-1	Aluminum Blade	Tampa			1011.00000000	Percentage	5.00000000	50	Percentage	100.00000000
000000005	New	00001045-0000	Work Order	FBA-1	Aluminum Blade	Tampa			1011.00000000	Percentage	5.00000000	50	Percentage	100.00000000
000000006	New	00001045-0000	Work Order	FBA-1	Aluminum Blade	Tampa			1011.00000000	Percentage	5.00000000	50	Percentage	100.00000000
000000007	New	00001045-0000	Work Order	FBA-1	Aluminum Blade	Tampa			1011.00000000	Percentage	5.00000000	50	Percentage	100.00000000
000000008	New	00001045-0000	Work Order	FBA-1	Aluminum Blade	Tampa			1011.00000000	Percentage	5.00000000	50	Percentage	100.00000000
000000009	New	00001045-0000	Work Order	FBA-1	Aluminum Blade	Tampa			1011.00000000	Percentage	5.00000000	50	Percentage	100.00000000
000000010	New	00001045-0000	Work Order	FBA-1	Aluminum Blade	Tampa			1011.00000000	Percentage	5.00000000	50	Percentage	100.00000000
000000011	New	00001045-0000	Work Order	FBA-1	Aluminum Blade	Tampa			1011.00000000	Percentage	5.00000000	50	Percentage	100.00000000
000000012	New	00001045-0000	Work Order	FBA-1	Aluminum Blade	Tampa			1011.00000000	Percentage	5.00000000	50	Percentage	100.00000000

Test Detail

Step	Attribute ID	Default Value	Type	Short Description	Long Description	Overall Fail Tolerance	Lot Characteristic	Precision	UOM	Upper Tolerance	Lower Tolerance
1	FTA40_VendLot		Text	Vendor Lot Number	Vendor Lot Number for FTA40 Aluminum	0.0%	<input type="checkbox"/>		0	0.00000000	0.00000000
2	FTA40_Gauge	0.40	Numeric	Aluminum Gauge	Gauge test for FTA40 Flat Sheet Aluminum	10.00%	<input type="checkbox"/>		2 Each	0.46000000	0.38000000

Drill Into

Analyze

Manage

Rows: 11 admin SDA

sage Maintain Attributes

Attribute ID: Ink Color

Description: Pantone Match

Type: List

Default Value: Pantone Orange C

UOM: Each

Overall Fail Tolerance: 10.00

Lot Characteristic

List Values

Notes

sage Maintain Attribute List Values

Attribute: Ink Color

List Value	Passes Test	Default
Pantone Blue C	<input type="checkbox"/>	<input type="checkbox"/>
Pantone Brown 470C	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Pantone Cool Gray	<input type="checkbox"/>	<input type="checkbox"/>
Pantone Cool Gray 8C	<input type="checkbox"/>	<input type="checkbox"/>

Set As Default

admin SDA 3/1/2004

sage Create Quality Test

Source Type: Work Order Step

Test Source: 00001166

Item: PA48X761

Warehouse: Tampa

Test Size: 9,184.00

admin SDA 3/1/2004