



Inspect, Test, Rework and Report

## NetSuite Quality Management



Designing, manufacturing, distributing and selling a product of high quality doesn't happen by accident, it requires a company-wide commitment to enforce policies and standards. NetSuite's Quality Management solution has been designed to help you deliver the highest quality in your products with minimal overhead regardless of the size and complexity of your business and product line.

### Key Benefits

- Formalise quality policies, standards and practices.
- Improve product quality.
- Initiate quality activities from business transactions.
- Work with large volumes of raw data sets.
- Collect in-process and incoming inspection results.
- Compare to pass/fail criteria.
- Integrated non-conformance reporting.
- Reduced cost of quality.

## Inspections

The inspection record defines exactly what it is that you want your quality engineer to check. These inspection records can be re-used so, for example, you only have to create a “check for material certificates” inspection once—these are later grouped into specifications that are then applied to items, etc. There are currently two main types of inspections that are supported.

With **qualitative inspections**, the inspector can verify that the item is in good overall condition or verify that the appropriate certificates are in place.

**Quantitative inspections**, on the other hand, allow you to define multiple measurable elements along with criteria for acceptance, i.e. diameter, width, length, temperature or even chemical composition.

## Skip Lot, Sample Size and Failures

Within each inspection, you can also specify how many items need to be inspected and define rules for inspecting specific sequences of lot or serial tracked items. Failures then define how many of the inspected units can fail inspection before the inspection itself is failed—kicking off the non-conformance workflow.

As an administrator, you are able to distinguish sample data from summary or aggregate data and control whether sample data should be recorded in NetSuite or stored externally, allowing you to easily work with larger volumes of raw data sets.

## Test Definition

Each inspection can be set up with multiple data elements that define the parameters of the inspection process.

**Quality Inspection**

Save Delete Copy Inspection Go Back

**Primary Information**

INSPECTION NAME \* [Comp Rest II] DESCRIPTION \* [Tests verify circuit continuity and component resistance is within limits] INSPECTION TYPE \* [Qualitative]  MANDATORY

INSPECTION METHOD \* [Digital Multimeter]

**Inspection Frequency And Sampling Requirements**

DETAIL FREQUENCY (SKIP LOT) [5] SAMPLE RATE [5%] ALLOWABLE FAILURES [1%]

**Data Fields** Standard Fields Rules System Information

**Data Field List**

New Data Field

| SELECT               | SEQUENCE | DATA FIELD         |
|----------------------|----------|--------------------|
| <a href="#">Edit</a> | 1        | Circuit Continuity |
| <a href="#">Edit</a> | 2        | Initial Resistance |
| <a href="#">Edit</a> | 3        | Material Receipt   |

Data Fields define the information that must be entered during the inspection, i.e. length, width and height.

| Standard Field List  |                   |             |
|----------------------|-------------------|-------------|
| SELECT               | STANDARD FIELD    | DATA TYPE ▲ |
| <a href="#">Edit</a> | Circuit Checks OK | Boolean     |
| <a href="#">Edit</a> | Resistance UCL    | Decimal     |
| <a href="#">Edit</a> | Resistance LCL    | Decimal     |

Standards fields are then established to define how the data field should be compared to a standard.

| Rule List            |          |                                |                    |                          |                   |
|----------------------|----------|--------------------------------|--------------------|--------------------------|-------------------|
| SELECT               | SEQUENCE | RULE                           | DATA FIELD         | COMPARISON               | STANDARD FIELD ▲  |
| <a href="#">Edit</a> | 1        | Circuit Continuity Rule        | Circuit Continuity | Equals                   | Circuit Checks OK |
| <a href="#">Edit</a> | 2        | Initialial Resistance Rule UCL | Initial Resistance | Less Than Or Equal To    | Resistance UCL    |
| <a href="#">Edit</a> | 3        | Initial Resistance Rule LCL    | Initial Resistance | Greater Than Or Equal To | Resistance LCL    |

Rules then establish how the data field entries should be compared to the standard and determine pass/fail.

## Specifications

The specification record groups related inspections to establish quality activities. So, for example, when receiving some raw materials, you might confirm dimensions as well as verify that the appropriate certification is present. Additionally, the specification record allows the user to:

- Associate specifications to item/vendor/location combinations.
- Define inspection frequency via settings for skip-lot, sampling and more.

- Define conformance rules that establish when an item fails an inspection.
- Display error messages that describe where and why updates failed.

## Automatic Triggering of Inspections

Based on item/vendor/location associations, NetSuite item receipt transactions are monitored and can initiate inspection activities with different rules for each.

### Assign Inspections More

[List](#) | [Assign](#)

**Inspection Queue Filters**

LOCATION: [Dropdown] [Link] ITEM: [Dropdown] [Link] ASSIGNED TO: [Dropdown] [Link] INSPECTION STATUS: Pending [Dropdown] [Link]

**Update Queue**

SET ASSIGNED TO: [Dropdown] [Link] SET PRIORITY: [Dropdown] [Link] SET STATUS: [Dropdown] [Link]

**Queue Records**

| SELECT                   | QUEUE | LOCATION              | ITEM             | SPECIFICATION                       | TRANSACTION TYPE | TRANSACTION QTY | ASSIGNED TO  | PRIORITY     | STATUS  |
|--------------------------|-------|-----------------------|------------------|-------------------------------------|------------------|-----------------|--------------|--------------|---------|
| <input type="checkbox"/> | 42    | Indianapolis Facility | PCB-P            | Circuit Boad Inspections - Incoming | Item Receipt #47 | 2               | Not Assigned | N/A          | Pending |
| <input type="checkbox"/> | 84    | Indianapolis Facility | I-945 BEAM       | Vendor Specification                | Item Receipt #93 | 5               | Not Assigned | N/A          | Pending |
| <input type="checkbox"/> | 7     | Indianapolis Facility | Non-Inv Item 001 | Standard Receiving Inspections      | Item Receipt #11 | 3               | Not Assigned | N/A          | Pending |
| <input type="checkbox"/> | 34    | Indianapolis Facility | I-745            | Dan Inbound Test                    | Item Receipt #53 | 10              | Not Assigned | N/A          | Pending |
| <input type="checkbox"/> | 59    | Indianapolis Facility | I-745            | Dan Inbound Test                    | Item Receipt #68 | 3               | Lance Roundy | 2-End Of Day | Pending |
| <input type="checkbox"/> | 30    | Indianapolis Facility | I-745            | Dan Inbound Test                    | Item Receipt #49 | 14              | Pat Smeaton  | 1-Standard   | Pending |
| <input type="checkbox"/> | 32    | Indianapolis Facility | PCB-P            | Circuit Boad Inspections - Incoming | Item Receipt #51 | 2               | Not Assigned | 2-End Of Day | Pending |
| <input type="checkbox"/> | 28    | Indianapolis Facility | PCB-P            | Circuit Boad Inspections - Incoming | Item Receipt #47 | 2               | Lance Roundy | 1-Standard   | Pending |
| <input type="checkbox"/> | 43    | Indianapolis Facility | I-745            | Dan Inbound Test                    | Item Receipt #56 | 8               | Not Assigned | N/A          | Pending |

## Inspector Assignment

Once an item has been identified as requiring inspection, an entry is made into the inspection queue where an individual quality engineer can be assigned to perform the task. Workflows can be utilised to automatically assign inspectors based on location, vendor, inspection type, etc.

## Perform Inspections via Tablet

The quality tablet interface enables quality engineers to perform inspections, review standards, record data and submit data for analysis directly from the inspection area providing real-time feedback and instant access to test results.

### Quality Specification Queue

Gavin Davidson | Quality Engineer

| Location              | Transaction       | Item             | Age      | Status  | Priority | User           |
|-----------------------|-------------------|------------------|----------|---------|----------|----------------|
| Indianapolis Facility | Purchase Order #3 | Non-Inv Item 001 | 3 months | Pending |          | Gavin Davidson |
| Indianapolis Facility | Purchase Order #1 | I-745            | a month  | Pending |          | Gavin Davidson |
| Indianapolis Facility | Purchase Order #3 | PCB-P            | a month  | Pending |          | Gavin Davidson |
| Indianapolis Facility | Purchase Order #3 | PCB-P            | a month  | Pending |          | Gavin Davidson |
| Indianapolis Facility | Purchase Order #6 | I-945 BEAM       | 5 days   | Pending |          | Gavin Davidson |

Perform Inspections via Tablet

← Item Receipt #93 Gavin Davidson Quality Engineer

|                         |                      |                         |                                        |
|-------------------------|----------------------|-------------------------|----------------------------------------|
| <b>Specification</b>    | Vendor Specification | <b>Transaction</b>      | <a href="#">Purchase Order #6</a>      |
| <b>Item</b>             | I-945 BEAM           | <b>Quantity</b>         | 5                                      |
| <b>Item Description</b> |                      | <b>Transaction Date</b> | Friday, October 27th 2017, 10:45:00 am |

**Priority:** **Assignee:** Gavin Davidson

↑ Dan Package Weight Not submitted

Weigh Package And Record Results

Package Weight (Lbs) Material Certificate [Set current date](#)

Once the user selects an inspection, they are walked through capturing the results and get real-time feedback where there are issues.

## Workflow Driven Non-Conformance

Quality failures, or non-conformances, can drive additional activities within NetSuite through customisable workflows—the application provides initial workflows for:

- Quarantine and Release
- Initiation of Vendor Return Authorisations

## Roles

The system comes with three distinct roles that are assigned to existing users:

- **Quality Administrator:** Responsible for setup and maintenance of quality specifications, context checks and workflow.
- **Quality Manager:** Responsible for monitoring and managing quality execution and reporting.
- **Quality Engineer:** Responsible for quality data collection.

| EDIT                 | SEQUENCE | CONFORMANCE RULE | INSPECTION     | ACTION           | HALT ON FAILURE ▲ |
|----------------------|----------|------------------|----------------|------------------|-------------------|
| <a href="#">Edit</a> | 10       | Check Dimensions | Dimension Test | Return To Vendor | Yes               |

Workflow Driven Non-Conformance

To find out more, contact NetSuite on [info@netsuite.com](mailto:info@netsuite.com)

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