

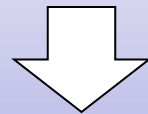


# **Quality Assurance System**

**RMI Laser,LLC**

# RMI Laser Quality System

**Follow ISO 9001**



**RMI Laser Quality manual**

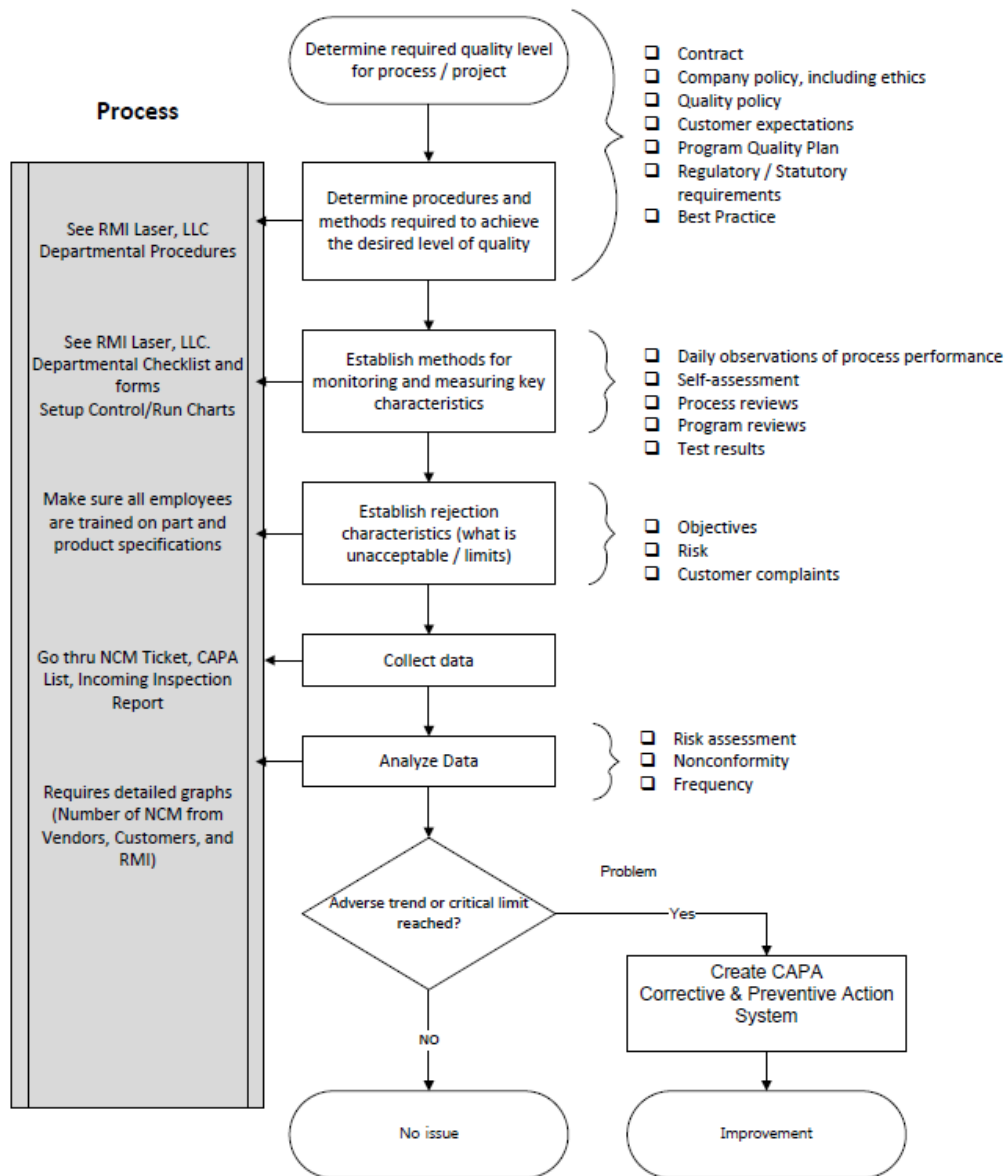


**Procedures**



**Forms**

# RMI Laser, LLC Quality Planning



# QA System - Incoming to Outgoing

## 1. Incoming Inspection

Incoming inspection for key components.

If we have high quality vendor, RMI needs incoming inspection of small quantity.

How to find the high quality vendors???

## 2. Manufacturing Process

*Realizing a stabilized operation (process chart, drawings ,check sheets/travelers, tests).*

## 3. Outgoing Inspection

*Realizing a stabilized products by QC (Actual article surveillance system by process audit and product s audit).*

## 4. Nonconformance Management

*Parts/vendor nonconformance, internal products/process nonconformance and customer complaint.*

# Nonconformance Management

**1. Incoming inspection** → Receiving check form, Nonconforming ticket, CAPA to the vendor.  
*Nonconformance found in the incoming inspection.*

**2. Internal issues** → Internal CAPA (Nonconforming ticket, Redline/ECR->ECO)  
*Nonconformance found in the manufacturing process or later. (Manufacturing and outgoing inspection)*

**3. Customer complaint** → RMA to CAPA (Nonconforming ticket, Redline/ECR->ECO)  
*Nonconformance found in the shipped products. (Customer Service)*



Receiving Raw Materials Quality Requirements

Purchased Part Data			
Parts Name	Parts Number	RMA/PO #	QTY, Received
1	1	1	1
2	2	2	2
3	3	3	3
Vendor Name	Date Received		QTY, Received
			1
			2
			3

Inspection Information	
Visual Inspection and Result	Mechanical Inspection and Result
1. Pass, Fail ( )	1. Pass, Fail ( )
2. Pass, Fail ( )	2. Pass, Fail ( )
3. Pass, Fail ( )	3. Pass, Fail ( )

Functional Inspection and Result	
1. Pass, Fail ( )	
2. Pass, Fail ( )	
3. Pass, Fail ( )	

Disposition			
QTY Inspected	Accept	Reject	Rework (In house)
1	1	1	1
2	2	2	2
3	3	3	3

Comments	

QSF 5.4.2 Rev 004  
 10/11/2011

Inspected By: \_\_\_\_\_  
 QA/QC Manager: \_\_\_\_\_

RMI Laser, LLC. Non-Conforming Material/Scrap Ticket	
Department: R&D, Eng, Production, CS, QC, PDT, Inv, Other ( )	Date: ( )
Parts Serial Number: ( )	Part number: ( )
Part Description: ( ) Reject Qty: ( )	
(For Production only) Work Order Number: ( )	
(For Customer Service only) RMA # ( ) Model: ( )	Warranty: YES, or NO ( )
Controller S/N: ( )	
(For Material control only) Vendor: ( ) PO#: ( ) Price: ( ) RMA #: ( )	
Description of Possible Non-Conformity (Reason to reject part): ( )	
Return to MRB Inspector: ( )	Date: ( )
Replaced parts: YES, or NO	Sign: ( ) Date: ( ) Hand to: ( )
(For Quality Control only) Investigation required: YES, or NO ( )	
(if YES) by Engineer: Mechanical Electrical Optical or specify ( )	
QC Inspector: ( )	Date: ( )
Filled out by the Department identifying the Root Cause of Non-Conformity: Root Cause of Non-Conformity: ( ) ( ) ( ) If the parts board, please select A or B: A. Vendor can't catch this problem B. Vendor should catch this problem. ( )	
Investigation Report attached: YES, or NO	Recommended actions: ( )
Scrap Internal R&D use only	To Vendor: Repair/Re-work /Credit/Replace
Internal Repair/Re-work (Back to stock)	No problem found (Back to stock) ( )
Repaired by: ( ) Date: ( )	Re-checked by: ( ) Date: ( )
QC Inspector: ( )	Date: ( )
Filled out by Quality Control Department: CAPA required: YES or NO (if YES) New CAPA #: ( ) or Existing CAPA #: ( )	
QC Inspector: ( )	Date: ( )
QSF: 5.3.1 Rev. 018 Released Date: 2/7/2014	

RMA/CORRECTIVE AND PREVENTIVE ACTION REQUEST	
"Also to be used for Customer Complaints"	
RMA-CC-C.A.R. ( )	Initiated By: ( )
CUSTOMER: ( )	Part Price: ( )
Initiation date: ( )	
LOT/SERIAL NUMBER: ( )	MODEL/Part: ( )
REV. ( )	QUANTITY: ( )
SCRAP TICKET ATTACHED: ( ) N/A	
NON-CONFORMING TICKET ATTACHED: ( ) N/A	
Internal Contact Team or Responsible Party: ( )	<input type="checkbox"/> QA Manager <input type="checkbox"/> Shipping/Receiving Manager <input type="checkbox"/> Others
	<input checked="" type="checkbox"/> Laser Manufacturing <input type="checkbox"/> Laser R&D, OEM <input type="checkbox"/> Sales Manager <input type="checkbox"/> Laser Customer Service <input type="checkbox"/> Engineering
INTERNAL REQUEST ( )	EXTERNAL CUSTOMER COMPLAINT ( )
DESCRIPTION OF POSSIBLE NONCONFORMANCE: ( )	
ROOT CAUSE: ( )	
<input type="checkbox"/> CORRECTIVE ACTION(S): <input type="checkbox"/> PREVENTIVE ACTION(S):	
<input type="checkbox"/> FINAL ACTION(S) TO CLOSE CAPA: ( ) Ship Date: N/A	
VERIFICATION OF ( )	<input type="checkbox"/> CORRECTIVE ACTION(S) <input type="checkbox"/> PREVENTIVE ACTION(S)
Verification Method: ( )	
Verified By Responsible Party: ( )	Job Title: ( ) Date: ( )
FOLLOW-UP	
COMPLETION OF CORRECTIVE / PREVENTIVE ACTION: Please Circle Applicable Action DATE: ( )	
For Effective Implementation, Corrective or Preventive Action Must be Verified by the Initiator or a Member of RMI's Management Team	
CORRECTIVE / PREVENTIVE ACTION(S): ACCEPTED / NOT ACCEPTED (PLEASE CIRCLE):	
BY: ( )	DATE: ( )
If Corrective / Preventive Action Is Not Accepted, Then Initiate A New C.A.R Form and Attach Any Pertinent Information (i.e. Old C.A.R., Response from Vendor, Suggested Actions) to the New Form.	

# Find good vendor and receiving high quality parts



## SUPPLIER QUALITY SYSTEMS SURVEY

Please complete this survey with as much information as possible. If certain questions are not applicable to your service, please enter "N/A".  
If you need additional space for answers, please attach the additional pages.  
This survey will be used by RMI Laser LLC for evaluation purposes.

### Company information

Company name	
Address	
Phone	
Fax	
Web site	

### Contact Personnel

President	Name:		Phone:
Quality Dept.	Name:	Title:	Phone:
Engineering Dept.	Name:	Title:	Phone:
Sales Dept.	Name:	Title:	Phone:

### Personnel Completing Survey

Name	
Title	
Phone	
E-mail	
Date Survey Completed	



## Supplier 4M Changing Request

Request date	
Request Company	
Request Company Document number	

Drawing #		Product Name	
Model		Sample	Yes , No

**Contents of change)** Please circle the corresponding item, and fill out the detailed information.

### 1. Change the manufacturing personnel:

If the work experience is less than one year in this special assembly process and /or change of work place (internal, external).

### 2. Change the machine:

### 3. Change the material:

### 4. Change the method:

**Reason for change)** Please fill out the detailed information.

**Delivery Schedule to change, RMI PO #**



## Supplier 4M Changing Request (Answer)

**To: RMI Laser LLC**

**(Result)** Please circle corresponding action.

We **(accepted, accepted depending on the condition, denied)** the 4M Changing Request.

**(Reason)**

### Signature and Date

Technical Manager		Supply Chain manager	
QC/QA manager		Other (R&D, ENG etc)	

**Received No:** \_\_\_\_\_ **Received Date:** \_\_\_\_\_

**3Q3S**

**Activities that  
Help Quality**

# Meaning of 3Q3S

## 3Q

Quality Worker  
Quality Company  
Quality Products

## 3Q

High Quality Worker  
High Quality Company  
High Quality Products

RMI  
Laser

Adapted

## 6S *(represents 6 Japanese words)*

*Seiri*

Arrangement

*Seiton*

Putting things in order

*Seiso*

Cleaning

*Seiketsu*

Cleanliness

*Saho*

Manner

*Shitsuke*

Discipline

## 3S *(represents 3 Japanese words)*

*Seiri*

Arrangement

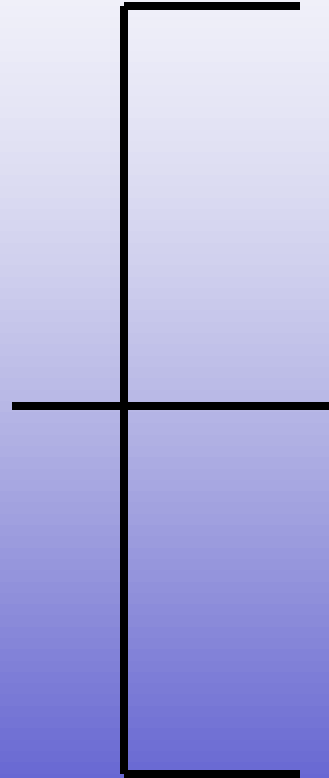
*Seiton*

Placing things in order

*Seiso*

Cleaning

3Q



High Quality  
Company

High Quality  
Worker

High Quality  
Products

# Arrangement

**To distinguish “the things which are needed” and “the things which are not needed” and put them accordingly. It is strictly prohibited to put the things which are not needed at work place.**

- Perform the arrangement at once in a short time.**
- Dispose the unnecessary things.**

**Following wastes will occur if you do not perform arrangement.**

- (1) Waste of space.**
- (2)Waste of time and labor to move things because of insufficient space.**
- (3) Inventory control for unnecessary things**

# Placing Things in Order

**To arrange necessary things properly in place and in a way which is suitable for safety, quality maintenance and efficiency so that everyone is able to find the things which is needed easily.**

- Determine the place and position considering the workability, safety and appearance.**
- Place legible signs.**
- Place things so that workers can get to them easily .**

**Following waste will be occur if you do not place things in order.**

- (1) Longer time will be needed to locate.
- (2) The “down” situation
- (3) Excessive purchase
- (4) Delivery delay

# Effects of 3Q3S

## 1. 3Q3S is a cost saver

3Q3S produces cost saving in the working place.

Save consumable, tools and lubricants.

Save setting up time and operation time.

## 2. 3Q3S is a time keeper

(1) No delay of delivery.

(2) Shorten lead time.

## 3. 3Q3S is a promoter of standardization

(1) Implement the things properly that everyone decided.

(2) Able to start operation immediately in any work place.

## 4. 3Q3S is an engine for quality and cost

(1) Aim for 100% non-defective by stabilizing and improving the quality.

(2) Lower the cost by reducing the defect.

# 3Q3S Activities in the Field



**Recognizing**  
**= *Visual management***



**Fix-positioning**  
**= *Image management***

# 3Q3S Good example



# 3Q3S Bad example

Categories  
are color  
coded??

What is he/she doing in  
production?  
paperwork? clean the  
material? Testing for  
electronic equipment?

What are these  
parts numbers?  
Are these good  
parts or not?  
Why is the drawer  
opened?



Why the trash  
bags on shelf?  
Do we need it  
in here?

