



# Supplier Quality Manual

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To our valued suppliers:

- In order to be a preferred supplier to our customers, we must continually improve our quality levels. As part of this improvement, we must have a process in place that encourages, supports and ensures our suppliers meet quality performance expectations.
- Specific strategies include:
  - Long-term partnerships with our suppliers
  - Close interaction among engineering, manufacturing, purchasing and quality personnel and our suppliers.
  - Assure compliance with AS9100 and other industry and regulatory standards.
  - This manual details what we need from you – **our partners.**

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## Section I – General Quality Requirements

### **Purpose**

Define the quality requirements for Response Technologies, LLC. (RT) suppliers.

### **Scope**

Unless otherwise exempt, this manual applies to suppliers providing products and services used in the direct manufacture of finished goods. The general manual does not apply to sub-tier suppliers unless specifically noted.

Facility Maintenance, Repair and Operational items and general services that indirectly support the manufacture of finished goods are excluded from this process unless specified by contract.

### **Right of Access**

The supplier shall provide our company, our customers, and/or regulatory authorities the right of access to all facilities and records related to product ordered by our company or one of its suppliers.

### **Record Control**

Records are to be retained for a minimum of five years and/or ten years for RT *Classified Parts Program* unless otherwise specified on the purchase order.

### **Facility or Organizational Change**

Suppliers are required to notify the organization of changes in product and /or process, changes of suppliers, changes of manufacturing facility location such as company name, location, or quality management system (ie. certification suspensions renewals, revocations, etc.). These changes may be received through notifications via the Supplier Quality Survey, phone calls, letters, acknowledgement of purchase orders, etc.

### **Personnel Awareness**

Suppliers shall ensure that all relevant personnel are aware of the following:

- Their contribution to product or service conformity;
- their contribution to product safety;
- the importance of ethical behavior.

### **Purchase Order Requirements**

The supplier shall adhere to all Purchase Order terms and conditions plus any stated special instructions.

### **Sub-Tier Selection**

RT reserves the right to specify or approve sub-tier suppliers chosen by its suppliers for RT designed parts.

### **Flow-down to Sub-Tier Suppliers**

The supplier shall flow down to its sub-contractors all quality related requirements specified in the applicable purchase order(s) and this manual, including regulatory requirements.

### **Special Process Suppliers**

Regardless of tier, suppliers shall use only approved suppliers for special processes when required by contract or purchase order. The suppliers may request a sub-tier supplier be added to the approved supplier list; however, such sources shall not be used until written approval has been granted.

Special process suppliers shall perform services as required by drawing specifications and/or purchase order requirements. Any deviation from these requirements must be submitted for Engineering, Purchasing and Quality approval.

Special Processes include the following:

- Non-destructive Testing (NDT)
- Heat Treating
- Welding / Brazing
- Chemical Processing
- Coatings
- Non-conventional Machining and Surface Enhancement (Chem milling, shot peening, etc.)
- Material Testing

### **First Article Production Approval**

If required by the purchase order. A first article inspection shall be documented the first time a supplier produces a complete part and for each detail part within an assembly. A new first article is required for any subsequent engineering changes. The new first article includes minimally the changed or added attributes. In addition, a new first article inspection is required for a two year (2) lapse in production if required by purchase order.

The decision to defer the first article inspection requires approval from Quality Management.

### **Purchased Part Control**

Suppliers must certify compliance with any constraints on restricted substances as specified by applicable purchase order or contract.

### **Counterfeit Parts Control**

Suppliers shall establish requirements, practices, and methods to mitigate the risks of receiving and providing RT with counterfeit parts. These requirements shall meet the intent of SAE AS6174 “Counterfeit Materiel; Assuring Acquisition of Authentic and Conforming Material” and SAE AS5553 “Counterfeit Electronic Parts; Avoidance, Detection, Mitigation, and Disposition.” Supplier shall have traceability for non-electrical standard parts (fasteners, nuts, washers, o-rings, etc.) and electronic component parts to the Original Component Manufacturer (OCM), Original Equipment Manufacturer (OEM), Authorized Aftermarket Manufacturer (AAM), or authorized distributor. Certification of product requiring specific source(s) of manufacture shall include name and location of all supply chain intermediaries from the source providing the product to the approved original manufacturing source.

### **Material Identification**

The supplier is required to establish a documented system for the control of materials. The inspection and test status of all materials should be identifiable. Any applicable containment areas or devices should be documented. Product removed from the normal process flow shall be segregated and clearly marked.

Raw materials must be identified as required by material specification or as noted on purchase order.

### **Monitoring and Measurement of Product**

The supplier shall monitor and measure the product characteristics to verify the product meets requirements. This shall be carried out at the appropriate stages of production and include adequate controls to ensure product shipped conforms to the Customer’s physical, dimensional, and visual requirements.

### **Drawing and Change Control**

The supplier's quality system must ensure the latest engineering drawings and specifications are available at the point of manufacture, inspection, and test.

### **Change in Product or Manufacturing Process**

Continual improvement is encouraged. However, the supplier shall not make any changes to the product or process that effect fit, form, or function without prior approval. The supplier must complete all verifications and tests necessary to ensure the process still produces to specification. The supplier must then obtain written approval prior to delivery.

### **Non-conforming Material**

Suppliers shall begin containment action immediately upon discovery or notification of a non-conformance. In the case of product escape, the supplier shall immediately notify the respective buyer.

For non-conforming material, processes or parts discovered prior to shipment, the supplier must request disposition via the respective buyer. The supplier may be requested to send the product for further evaluation. The buyer will notify the supplier of the disposition following review.

### **Order Documentation and Certificates**

All shipments must include an itemized packing list.

Unless otherwise specified by contract, each critical material shipment shall include certification of conformance (CoC) and/or certification of analysis (CoA). The supplier must provide CoC and/or CoA for all materials and processes specified on the purchase order or contract.

Regardless of whether or not an OEM CoC or CoA is provided with the shipment, distributors must maintain and have available CoC, CoA, and/or acceptable traceability documentation to the original equipment manufacturer per record retention requirements

## Section II – Supplier Qualification/Approval

### **Supplier Quality Survey**

Potential new suppliers complete a Supplier Quality Survey. A supplier self-evaluation document can be acceptable in lieu of the survey, provided the information required and/or requested is included in supplier document.

The purpose of the survey is to give initial overview of the supplier's organization. Upon return a decision is made regarding approval. Further documentation and information may be requested as necessary based on survey responses.

### **Supplier On-Site Audit**

In addition to Supplier Quality Survey, depending on supplier classification, on-site audits may be conducted as part of the initial introduction as a new supplier

Once approved, suppliers will be subject to periodic Supplier Verification audits as needed.

These audits may be made up of a cross functional team consisting of Quality, Procurement, Production personnel, or additional team members as assigned.

### **Supplier Evaluation for Limited Scopes**

At the discretion of Quality Management, smaller and otherwise restricted suppliers are accessed to determine their ability to pass a full Quality Management system audit. If determined the supplier is unable to pass a full audit; they will be classified as "Limited" and accessed on a smaller scale to assure a competence to meet requirements including control of supplied material.



### **Granting Approval**

Initial approvals may be made by commodity, part number, facility location, or any combination thereof.

Initial approval may be granted as approved or approved with conditions. Conditions may include the following circumstances:

- The supplier has returned a completed Supplier Quality Survey and an acceptable Certificate of Conformity needs to be approved by Quality Control or Quality Assurance.
- The supplier is pending an on-site audit but has completed a Supplier Quality Survey form or a self-audit.
- The supplier has not closed all corrective action requests resulting from an on-site audit.
- The supplier has returned a completed Supplier Quality Survey and it is currently under review.
- The supplier has returned a completed Supplier Quality Survey and additional information has been requested.
- The supplier has been approved on a 3-month trial basis for monitoring and evaluation.

Once approved by Quality Assurance Supplier Control and/or Quality Management, the supplier is added to the "Approved Supplier List"

## **Section III – Supplier Monitoring**

### **Approved Supplier List Requirements**

Suppliers must maintain an approved quality management system and acceptable performance levels in order to remain on the list.

The supplier's quality system shall be surveyed periodically and upon expiration of the supplier's ISO or AS certification (if applicable). Additional assessments may be scheduled based on but not limited to risk or performance. The cost associated with audits performed based on results of supplier performance may be charged to the supplier.

All suppliers will assure materials, services, and processes provided are in-conformance and delivered on time.

### **Suspension from Approved Supplier List**

Our company maintains records of suppliers suspended with the reason for suspension.

If a supplier is suspended from the "Approved Supplier List" for performance reasons, the supplier will have to return to the qualification / approval process to regain approved supplier status. In addition to the normal approval process, the supplier will need to provide documentation on how the quality management system has been improved since being removed from the "Approved Supplier List".

If a supplier is suspended for non-use or the non-performance related issues, the supplier may at anytime be reinstated provided it can be determined the supplier is still in good standing and will meet all applicable requirements.

### **Supplier Performance**

Suppliers are monitored, measured, rated and ranked. Suppliers will be rated yearly according to the metrics of Quality, Customer Service, Delivery, Process Improvement and Control as stated on the supplier report card. Additionally, for each independent metric, one overall ranking will be generated for a rolling 12 month period. Ratings and Rankings are on a descending scale from 1 to 5, with 1 designating outstanding performance and 5 representing unacceptable performance. Suppliers should strive for 100% quality, customer service, delivery and process improvement and control. Information for all suppliers is available upon request.

### **Failure to Maintain Supplier Performance Requirements**

Failure to meet the minimum performance requirements of an overall ranking of 5, and/or repeated shipment of non-conforming material and/or repeated late deliveries could result in the initiation of the escalation process, up to and including re-sourcing. In addition the supplier is also required to have timely responses to corrective action and show continual improvement through improving performance trends.

Based on supplier category, severity of non-conformance, supplier history, and the discretion of management, the escalation process can be accelerated or decelerated at any time. The escalation process is described in detail in Appendix A.

## Appendix A – Escalation Process Guidelines for Poor Performance

### Level 1 – Supplier Corrective Action Request (SCAR)

- Basis – Receiving inspection non-conformances or performance under minimum requirements. Supplier combined rating of 5(red) for rolling 12. Issue scorecard if rating of 4 (yellow) or rating of 5(red) for the month (after review).
- Supplier Requirements – Immediate action to contain the problem within 48 hours and Corrective Action to prevent recurrence including verification within 30 days.
- Exit Criteria – Corrective Action accepted by Quality and Purchasing

### Level 2 – Supplier Performance Review

- Basis – Non-conforming material received or repeat SCARs (2+). Deteriorating KPI metrics (in red or yellow on our system-dependent on supplier), poor or no response/cooperation to SCAR. If sole source supplier, skip to level 3.
- Supplier Requirements – Purchasing and Quality schedules a meeting with supplier to review performance. Supplier provides a detailed action plan for resolution within 10 business days of meeting. CSL 1 or CSL 2 implemented if or when required.
- Exit Criteria – Action plan completed by supplier and approved by Quality and Purchasing

### Level 3 – Certified Shipping Level 1 (CSL 1)

- Basis – Four SCARs in a rolling 6 month period or any delinquent SCARs. Chronic problems with suppliers, continuously rank in yellow or red in our system after multiple SCARs. Failures or delays to Level 2.
- Supplier Requirements – Management meeting with Supplier. Supplier adds a redundant 100% inspection with documented results. Redundant inspection is in addition to standard control procedures. CSL 1 inspection work station has to be independent of supplier's production process and approved by an on-site RT Audit. Shipments are identified as certified by marking material or containers.
- Exit Criteria – The greater of 20 days or 10 consecutive shipments with no rejections as noted on the 100% inspection documentation. Documentation must be provided to and accepted by Quality and Purchasing.

### Level 4 – Certified Shipping Level 2 (CSL 2)

- Basis – Continued poor performance. Non-conforming material received during Certified Shipments. No cooperation in prior levels. Ranked yellow (4) or red (5) in our system after CSL 1 implemented.
- Supplier Requirements – In addition to CSL 1 inspection process, must put in place a contract with a third party inspection company to perform a redundant 100% inspection with documented results. Documentation such as progress reports and statistical analysis must be provided to and accepted by Quality and Purchasing. All arising costs are at supplier's expense.
- Exit Criteria - The greater of 20 days or 10 consecutive shipments with no rejections as noted on the 100% inspection documentation. Documentation must be provided to and accepted by Quality and Purchasing.

## Appendix A – Escalation Process Guidelines for Poor Performance

### Level 5 – Supplier Unable to Comply with Requirements

- Basis – Continued chronic systemic problems, supplier cannot fulfill requirements.
- Supplier Requirements – Quality and Purchasing Management schedules a meeting with supplier. Supplier provides a detailed action plan for resolution within 10 business days of meeting.
- Exit Criteria - Action plan completed by supplier and approved by Management.

### Level 6 – Re-sourcing

- Basis – Steps 1 – 5 have been exhausted without resolution
- Requirement –Develop a re-sourcing plan for products, services, and/or processes provided by the supplier and the supplier is suspended from the “Approved Supplier List”.