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1 Purpose and Scope

This procedure defines supplier responsibilities when a Purchase Order (PO) references AV Supplier Quality Codes. It applies to all suppliers providing parts, materials, and assemblies to AV, ensuring that suppliers understand, comply with, and provide documentation for all applicable quality codes.

2 Requirements

- When a PO references Supplier Quality Codes, the supplier must review all codes listed in the PO and ensure full compliance.
- Each code (Q-Code) specifies mandatory deliverables (e.g., FAIRs, certifications, inspection reports, readiness checklists).
- Required documentation must be prepared, reviewed, and submitted prior to or with shipment, as defined in the applicable code.
- Documentation must be submitted via Net-Inspect or by the method specified in the PO.
- Compliance with Supplier Quality Codes is a condition of PO acceptance. Non-conformance may result in rejection of product and/or delayed payment.

3 Supplier Quality Engineer Responsibility

The following guidelines ensure the standardized entry of quality clauses for Item Master Organization (IMO) part numbers in the "Product Information Management" module of Oracle Fusion; using OGL QA010 in Oracle Fusion.

3.1 Format for Entry

Begin with the phrase: "The following Supplier Quality Codes apply in accordance with BMSD-975:"

3.2 Listing Single and Multiple Codes

- For a **single code**, format as: "The following Supplier Quality Code applies in accordance with BMSD-975: Q[Code]"
 - Example: "The following Supplier Quality Codes apply in accordance with BMSD-975: Q001"
- For **multiple codes**, format as: "The following Supplier Quality Codes apply in accordance with BMSD-975: Q[Code], Q[Code], Q[Code]"

The latest version of BMSD-975 Supplier Quality Codes can be found at <https://suppliers.avinc.com/>

- Example: "The following Supplier Quality Codes apply in accordance with BMSD-975: Q001, Q101, Q102"



The latest version of BMSD-975 Supplier Quality Codes can be found at <https://suppliers.avinc.com/>

- Additional Guidance:
 - Ensure there are no extra spaces before or after the list of codes.
 - Separate each code with a comma followed by a single space, without trailing commas.
 - Double-check that each Supplier Quality Code is correctly referenced from the latest version of BMSD-975.

4 Supplier Responsibility

- Suppliers are responsible for flowing down applicable Supplier Quality Codes to their sub-tier suppliers.
- Suppliers must maintain objective evidence of compliance and make it available upon request.
- Suppliers must contact the assigned SQE or AV Supply Chain representative if clarification is required.

5 Codes

Table 1. Supplier Quality Codes

Quality Codes	Requirement Description	Category
Q001	Supplier Quality Manual Compliance – Suppliers must comply with all requirements defined in AV's Supplier Quality Manual BMSD-48; latest revision is located on https://suppliers.avinc.com/	General Quality Requirements
Q002	Certified Quality Management System Required – The supplier must maintain a current, certified Quality Management System (QMS) to at least ISO 9001; AS9100D is preferred. A valid third-party certificate from an accredited registrar must be available for review upon request.	General Quality Requirements
Q003	AS9102 FAIR Required – A First Article Inspection Report (FAIR) per AS9102 is required for all first production shipments via Net-Inspect.	General Quality Requirements
Q004	Material Certifications Required – Material certifications, including mill certs, are required with all shipments.	General Quality Requirements
Q005	Use of Net-Inspect Required – Suppliers must use Net-Inspect's eSource for all shipment documentation submission.	General Quality Requirements
Q006	Certificate of Conformance (CoC) Required – Each shipment must include a CoC signed by an authorized company representative. When specifications are required per the drawing, those specifications shall be clearly listed on the CoC. If the drawing or purchase order references specific specifications or standards (e.g., MIL-STD, IPC, FED-STD, ASTM, etc.), the CoC must explicitly reference those specifications or standards to confirm compliance.	General Quality Requirements



Q007	Special Process Certifications Required – Suppliers performing special processes (e.g., plating, coating, welding, heat treatment, NDT) must provide certifications per NADCAP and/or customer requirements.	General Quality Requirements
Q008	Lot Traceability Required – Suppliers must maintain full lot traceability for raw materials and special processes. Traceability records must be available upon request.	General Quality Requirements
Q009	Shelf Life and Cure Date Requirements – Products with shelf-life limitations must have at least 75% shelf life remaining at the time of shipment. Expiration/cure dates must be clearly identified.	General Quality Requirements
Q010	FOD Prevention Program Compliance – Supplier must have a Foreign Object Debris/Damage (FOD) prevention program in place per AS9146.	General Quality Requirements
Q011	Counterfeit Parts Prevention Compliance – All parts must be sourced from the Original Component Manufacturer (OCM) or Authorized Distributor. Compliance with AS5553/AS6174 is required.	General Quality Requirements
Q012	Control of Sub-Tier Suppliers – The supplier is responsible for ensuring that sub-tier suppliers comply with all applicable quality requirements.	General Quality Requirements
Q013	Production Readiness Checklist Required – The assigned SQE will issue a Production Readiness (PPAP) Checklist in Net-Inspect, identifying the required elements (e.g., PFMEA, Control Plan, Process Flow, Run-at-Rate, etc.). The supplier must complete the checklist in full and provide all required documentation through Net-Inspect for review and buy-off prior to production approval. Compliance with the checklist and all specified elements is mandatory.	General Quality Requirements
Q014	Dimensional Inspection Report (DIR) Required – Suppliers must provide a complete DIR with actual measurements for all key and/or critical characteristics. When there are no key or critical dimensions identified, the supplier may identify which features to monitor and record data for; the data must be provided to AV.	General Quality Requirements
Q015	Process Capability Data Required – Statistical Process Control (SPC) data must be submitted with shipments via Net-Inspect.	General Quality Requirements
Q016	Lot Acceptance Testing (LAT) Required – A Lot Acceptance Test (LAT) per drawing or PO requirements must be conducted and documented.	General Quality Requirements
Q017	ESD Protection Requirements – All ESD-sensitive items must be handled, packaged, and shipped per ANSI/ESD S20.20 requirements.	General Quality Requirements
Q018	DPPM Performance Requirement – Suppliers must maintain a defect rate below 5000 DPPM. Corrective actions are required if exceeded.	General Quality Requirements
Q019	On-Time Delivery Compliance – Suppliers must maintain on-time delivery performance at ≥95%.	General Quality Requirements
Q020	Corrective Action Response Required – Suppliers must respond to any Supplier Corrective Action Request (SCAR) within 10 business days.	General Quality Requirements



Q021	Notification of Changes Required – Suppliers must notify the buyer of any process, design, material, or manufacturing location changes prior to implementation.	General Quality Requirements
Q022	Right of Access – Buyer, customer, and regulatory authorities reserve the right to access the supplier's facility for audits, inspections, and investigations.	General Quality Requirements
Q023	Conflict Minerals Compliance – Supplier must certify compliance with the Conflict Minerals Rule per Section 1502 of the Dodd-Frank Act.	General Quality Requirements
Q024-Q-099	Reserved for future use	General Quality Requirements
Q100	IPC-A-610 Compliance – All PCBAs must be built and inspected per IPC-A-610 Class 3 requirements.	Printed Circuit Board Assemblies (PCBA) & Electronic Components
Q101	J-STD-001 Compliance – Soldering must be performed per IPC J-STD-001 Class 3 requirements.	Printed Circuit Board Assemblies (PCBA) & Electronic Components
Q102	X-Ray Inspection Required – BGA and other hidden solder joints must be verified using X-ray inspection.	Printed Circuit Board Assemblies (PCBA) & Electronic Components
Q103	Component Authenticity Verification – Suppliers must provide component authenticity reports for critical electronic components.	Printed Circuit Board Assemblies (PCBA) & Electronic Components
Q104-Q149	Reserved for future use	Printed Circuit Board Assemblies (PCBA) & Electronic Components
Q150	Surface Finish Verification Required – Supplier must provide documentation confirming compliance with specified surface roughness requirements.	Machined Parts & Sheet Metal
Q151	NDT (Non-Destructive Testing) Certification Required – When applicable, supplier must provide NDT reports (X-ray, ultrasonic, penetrant, etc.).	Machined Parts & Sheet Metal
Q152-Q199	Reserved for future use	Misc
Q200	Mold Qualification & Approval Required – First production part from each mold and/or cavity must be submitted for mold qualification before full production.	Injection Molded & Composite Parts
Q201	Material Batch Certification for Polymers Required – All plastic and composite materials must include batch-level material certifications.	Injection Molded & Composite Parts
Q202-Q249	Reserved for future use	Misc



Q250	Wire Harnesses Built to IPC/WHMA-A-620 – All wire harness assemblies must comply with IPC/WHMA-A-620 requirements.	Box Builds & Cable Assemblies
Q251	Functional Testing Required – Box builds and electronic assemblies must be functionally tested before shipment.	Box Builds & Cable Assemblies
Q252	Continuity Testing Required – Box builds and electronic assemblies must have continuity testing before shipment.	Box Builds & Cable Assemblies
Q253-Q299	Reserved for future use	Misc
Q300	Compression Set & Durometer Verification – Supplier must provide test data confirming compliance with specified material properties.	Foams, Gaskets & Seals
Q301-999	Reserved for future use	Misc

6 Definitions

Term	Definition
Business Management System Documentation (BMSD)	Company documentation (policies, instructions, templates, manuals) required for planning and execution in the core business area and/or department of an organization. The quality management system is fully integrated within the BMS.
Functional Owner	The role responsible for the content and administration of this document, and establishing, documenting, maintaining, implementing, and improving the processes covered by this document.
Functional Participant(s)	Departments that are stakeholders in, and responsible for, following and using the content contained in this document effectively and suggesting ways to continually improve this document and the content contained herein.
“May”	Used to express a possibility or permitted requirement.
“Must”	Used whenever a requirement is intended to indicate a binding, or mandatory, action. “Must” should be used to indicate that a person “has a duty to” or “is obligated to” perform a task or action.”
“Should”	Used to express a non-mandatory provision that is encouraged.
“Will”	Used to express a declaration of purpose or promise of future action. “Will” does not create obligations to perform actions or tasks.

7 Authority and Responsibility

Functional Owner(s)	Functional Participant(s)
Supplier Quality	Supply Chain, Receiving Inspection, Quality Engineering, Product Engineering