

	Quality Clauses	Document # PP003	Revision 26	Released 10-16-2025
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Quality Clauses

"Buyer" = Advanced Integration Technology (AIT)

"Seller" = Supplier, subcontractor, vendor and/or agents/representatives receiving an AIT PO

"Customer" = Advanced Integration Technology's customer

Specific Quality Clauses are identified on the Purchase Order and are described in the list below. Unless otherwise noted, the Seller must use the latest revision of all standards, specifications and other controlling documents referenced within the Purchase Order, statement of work, and/or drawings and models.

When the Seller is permitted to outsource to sub-tier suppliers per QA11, Seller is responsible for ensuring all sub-tier suppliers follow all applicable requirements, including Terms and Conditions, Quality Clauses, and the Supplier Quality Manual (QA25), when applicable.

Seller agrees to all Terms and Conditions and applicable Quality Clauses upon acceptance of the Purchase Order.

The latest AIT documents can be found at the links provided below:

Terms and Conditions: http://www.aint.com/about_ait/quality/terms_and_conditions

Quality Clauses: <https://www.aint.com/user/file/QualityClauses.pdf>

FAR and DFARS Flow Down Clauses: <https://www.aint.com/user/file/FARDFARS.pdf>

Supplier Quality Manual: <https://www.aint.com/user/file/SQM.pdf>

Quality Clause Categories

Quality Clauses are grouped by category with regards to the goods or services the Seller is providing. Seller deliverables will be reviewed for adherence to the clauses that apply. Should Seller have any questions regarding which quality clauses apply, please contact your purchasing representative for clarification.

Applicable to All Purchase Orders:

QA6 – ROOT CAUSE AND CORRECTIVE ACTION

QA10 – RECORD CONTROL

QA20 – SHIPPING INSTRUCTIONS

QA21 – COUNTERFEIT PARTS

QA22 – SUBCONTRACTOR OVERSIGHT

QA23 – SUPPLIER PERFORMANCE AND MEASUREMENT

QA26 – FOREIGN OBJECT DEBRIS/DAMAGE (FOD)

Raw Materials (steel, aluminum, rubber, etc.):

QA1 – PART MARKING IDENTIFICATION

QA2 – PACKING/PACKAGING

QA11 – SUBCONTRACTING

QA12 – PHYSICAL AND CHEMICAL TEST REPORTS

QA16 – NONCONFORMING MATERIAL CONTROL & LATENT NONCONFORMANCE NOTIFICATION

QA17 – CHANGES

Component Parts and Commercial Off-the-Shelf (COTS) Items:

QA1 – PART MARKING IDENTIFICATION

QA2 – PACKING/PACKAGING

QA13 – QUALITY SYSTEM REQUIREMENTS

QA17 – CHANGES

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Machined and/or Fabricated Parts per Design:

QA1 – PART MARKING IDENTIFICATION
QA2 – PACKING/PACKAGING
QA3 – DATA MANAGEMENT AND TRANSMISSION
QA4 – INSPECTION
QA8 – SURFACE TREATMENT AND MASKING
QA9 – CERTIFICATE OF CONFORMANCE

QA11 – SUBCONTRACTING
QA12 – PHYSICAL AND CHEMICAL TEST REPORTS
QA16 – NONCONFORMING MATERIAL CONTROL & LATENT NONCONFORMANCE NOTIFICATION
QA17 – CHANGES
QA25 – SUPPLIER QUALITY MANUAL

Outside Services and Turnkey Manufacturing:

QA1 – PART MARKING IDENTIFICATION
QA2 – PACKING/PACKAGING
QA4 – INSPECTION
QA7 – SPECIAL PROCESS
QA8 – SURFACE TREATMENT AND MASKING
QA9 – CERTIFICATE OF CONFORMANCE
QA11 – SUBCONTRACTING

QA13 – QUALITY SYSTEM REQUIREMENTS
QA16 – NONCONFORMING MATERIAL CONTROL & LATENT NONCONFORMANCE NOTIFICATION
QA17 – CHANGES
QA24 – THERMAL STRESS RELIEF
QA25 – SUPPLIER QUALITY MANUAL

Design and Technical Services / Consulting:

QA3 – DATA MANAGEMENT AND TRANSMISSION
QA11 – SUBCONTRACTING

QA13 – QUALITY SYSTEM REQUIREMENTS

Contractor Services and Manual / Technical Labor:

QA11 – SUBCONTRACTING

QA13 – SYSTEM REQUIREMENT

Quality Clause Definitions

QA1 – PART MARKING/IDENTIFICATION

Seller, including outside services, shall identify parts with the part number, job identification number. Means of identification, such as stamping, engraving, paint marking or tagging shall be requested by the AIT Project Manager. When required, suppliers of outside services will maintain component identification (for fly parts) throughout receipt, processing and delivery.

For raw materials, all individual pieces must be appropriately marked with lot numbers traceable back to the corresponding material certificates and test reports received with the shipment.

QA2 – PACKING/PACKAGING

Seller must ensure that all items shipped under this Purchase Order are adequately packed and/or packaged to prevent damage, contamination and/or deterioration. Unless otherwise specified on the Purchase Order, Seller must use best commercial practices in packaging to prevent damage, contamination and/or deterioration to all items during transit.

QA3 – DATA MANAGEMENT AND TRANSMISSION

All data provided to support this order is proprietary and shall not be reproduced in whole or part without the express written consent of Advanced Integration Technology. Seller is responsible to maintain and shall

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comply with standards such as Boeing D6-51991, Boeing D6-56202, and others as required by Advanced Integration Technology and customers.

Where applicable, seller may receive requirements from buyer that is intended for further transmission. This data and/or other buyer's customer requirements, or other applicable requirements, shall be flowed down the supply chain as directed by the buyer.

QA4 – INSPECTION

For machined or fabricated parts, Inspection Reports are mandatory on all orders showing documented evidence of inspection and verification of three (3) or four (4) place dimensions only with actual results. Inspection report should show variance of dimensions measured or results of measurements. When using a Computer Numerical Controlled (CNC) machine, a sampling plan per ANSI Z1.4 is acceptable. The report must show Advanced Integration Technology part number, revision, purchase order number, and date. Reports must be submitted electronically (when possible) to the Buyer or be included with the shipment. Reports submitted in Seller's format is acceptable. Parts sent out for outside services such as, but not limited to, plating/coating and heat treat are to be inspected for visual defects prior to being returned to AIT. No inspection report is required.

QA5 – FIRST ARTICLE INSPECTION

A detailed first article inspection (FAI) report must be provided as required. The report must include evidence of conformance to all elements including material and processes. Each drawing characteristic must be complete with the tolerance. The report must show Advanced Integration Technology part number, revision and purchase order number. When FAI piece is required, it must be submitted separately.

QA6 – ROOT CAUSE AND CORRECTIVE ACTION

When requested Seller shall provide proof of root cause determination and corrective action for any deficiencies deemed Seller's responsibility.

QA7 – SPECIAL PROCESSES

Each special process, including, but not limited to: soldering, cleaning / etching or passivation, welding, brazing, plating / coating, heat treating, magnaforming / swaging, electro polishing, acid pickling, impregnating, bonding, glass sealing, shot peening, silkscreening, magnetic particle / penetrant or X-Ray or N-Ray inspections, when required by Advanced Integration Technology or other process specifications shall be performed by approved suppliers.

QA8 – SURFACE TREATMENT AND MASKING

Mask off all machined keyways, slots and plug all machined/drilled/tapped holes. Otherwise, surface treat per drawing requirements.

Apply surface treatment against rust on machined surfaces with wax, oil, anti-rust spray or equivalent while staging. Parts shall be surface treated against rust prior to shipping.

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QA9 – CERTIFICATE OF CONFORMANCE

Seller shall submit with each shipment a Certificate of Conformance stating that the items furnished to Advanced Integration Technology are in conformance to the Purchase Order/Drawing requirements applicable to the items delivered. This document clearly identifies that the entire order meets the PO requirements and that appropriate documents are available when requested (such as, inspection reports, first article inspection reports, material certifications – chemical, physical, etc...)

Any recognized aerospace, military and/or industry standard, when imposed by the drawing, specification or Purchase Order must be specifically stated and form a part of the certification. Each Seller certification must contain the following information: (a) Purchase Order Number (b) Lot Number (c) Quantity Shipped (d) Part Number (e) The date of issue, and (f) Signature and title of the Seller's authorized representative.

QA10 – RECORD CONTROL

Unless a longer period is specified in this Purchase Order or by law or regulation, Seller and its sub-tier suppliers shall retain all records related to this Purchase Order for a period of ten (10) years from the date of final payment received by Seller. Records related to this Purchase Order include, but are not limited to, financial, proposal, procurement, specifications, production, inspection, test, quality, nonconformance, shipping, export, and certification records. At no additional cost, Seller shall provide timely access to such records to the U.S. Government or Buyer upon request. Once records have been held for the required retention period, Seller shall contact Buyer at least thirty (30) days prior to the disposal of any records. When disposing of records, Seller shall comply with laws or regulations, as applicable, and ensure a secure method is used to render records unusable.

QA11 – SUBCONTRACTING

Subcontracting ALL or substantially all of the work procured on this purchase order without written approval of Advanced Integration Technology is prohibited. All subcontracted operations by the Seller must meet all provisions of the purchase order and customer's requirements as provided by AIT. Seller is responsible to flow down and ensure all sub-tier suppliers follow all applicable requirements, including Terms and Conditions, Quality Clauses, and the Supplier Quality Manual (QA25), when applicable. This includes, but is not limited to, the collection of any certifications, test documents, and objective evidence of conformance to processes passed along through relevant technical data (e.g., specifications, drawings, process requirements, work instructions).

QA12 – PHYSICAL AND CHEMICAL TEST REPORTS

Material test reports/certifications are to be supplied electronically (when possible) to Buyer or included with the shipment. Seller agrees to maintain physical/chemical test reports and/or certificates traceable to material being ordered per QA Clause 10 above. All material received must be marked per QA1 and traceable to supplied reports.

QA13 – QUALITY SYSTEM REQUIREMENTS

Seller shall maintain a documented quality system that complies with the requirements of government and/or industry quality system standards. Seller's quality system is subject to verification and approval at all times by Advanced Integration Technology.

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QA14 – FAR, DFARS

This Purchase Order is derived from a U.S. Government contract or subcontract, Seller agrees to comply with all FAR and DFARS flow down requirements stated in PF013 - FAR and DFARS Flow Down Clauses:

<https://www.aint.com/user/file/FARDFARS.pdf>

QA15 – ITAR, EAR, and CGP

Performance of this Order involves the use of or access to articles, Technical Data or software that is subject to export controls under 22 U.S.C. 2751-2799 (Arms Export Control Act) and 22 C.F.R. 120-130 (ITAR) or 50 U.S.C. 2401-2420 (Export Administration Act of 1979, as amended), 50 U.S.C. 1701-1706 (International Emergency Economic Powers Act, as amended), and 15 C.F.R. 730-774 (EAR) and their successor and supplemental laws and regulations (collectively hereinafter referred to as the “Export Regulations”). Seller shall comply with any and all Export Regulations, and any license(s) issued there under.

QA16 – NONCONFORMING MATERIAL CONTROL & LATENT NONCONFORMANCE NOTIFICATION

If nonconformance(s) is detected by Seller (prior to or post shipment of product), Seller shall notify buyer of the nonconforming product. Disposition and any subsequent approval of nonconforming product shall be provided by Advanced Integration Technology. The AIT Supply Chain Management representative, or delegate (Project Manager) shall provide disposition requirements.

QA17 – CHANGES

Seller shall not make any changes to the process or materials specified under the purchase order. Seller shall notify Advanced Integration Technology in writing prior to any proposed changes in product and/or process, suppliers/sub-tiers, manufacturing facility location and/or ownership, and where required, obtain Advanced Integration Technology approval. Notification of such changes shall be directed to AIT Supply Chain Management or designate (Project Manager).

QA18 – 100% INSPECTION

Inspection is required with actual recorded results, for all characteristics on all parts to ensure conformance to drawing and specification requirements. A copy of this inspection record is required with the shipment of product.

QA19 – ADVANCED INTEGRATION TECHNOLOGY SOURCE INSPECTION

Advanced Integration Technology source inspection is required. Inspection shall be conducted at the Seller's facility and shall be requested and accomplished prior to shipment. When the items on the Purchase Order are ready for inspection, notify the Buyers purchasing representative so that coverage can be arranged. Drawings, specifications and/or other pertinent data, as required by Purchase Order, shall be made available to the Advanced Integration Technology Quality Representative, at the time of material presentation.

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QA20 – SHIPPING INSTRUCTIONS

Advanced Integration Technology will specify premium shipping services as required and note same on each purchase order if required. Unless otherwise noted standard ground services such as UPS or USPS, for domestic shipments, is authorized via purchase order.

For any drop shipments directly to an Advanced Integration Technology customer, please contact Advanced Integration Technology Procurement Department for specific instructions.

Failure to comply with Advanced Integration Technology shipping instructions may result in Seller being charged with any cost differences.

QA21 – COUNTERFEIT PARTS

Seller shall make every effort to assure safe, reliable product and mitigate the risk of counterfeit parts entering the system. A counterfeit part is any item misrepresented as having been designed and/or produced under an approved system or other acceptable method. Seller shall immediately notify AIT with the pertinent facts regarding any confirmed or suspected counterfeit parts. If counterfeit parts are furnished under a purchase agreement, such items shall be impounded. The seller (and/or their applicable supply chain) shall promptly replace such items with items acceptable to AIT. Seller (and/or applicable supply chain) may be liable for all costs relating to impoundment, removal and replacement. AIT may turn such items over to US Government authorities (Office of Inspector General, Defense Criminal Investigation Service, Federal Bureau of investigations, etc.) for investigation and reserves the right to withhold payment for the suspect parts pending the results of the investigation.

QA22 – SUBCONTRACTOR OVERSIGHT

Seller acknowledges their role in the contribution to product or service conformity, product safety, and the importance in maintaining ethical behavior in the marketplace.

QA23 – SUPPLIER PERFORMANCE AND MEASUREMENT

Seller performance is monitored throughout the performance of the Purchase Order to ensure the Seller provides products and services on-time and at the expected quality level. If AIT Supply Chain detects specific risks associated with the performance of the Purchase Order, AIT Supply Chain may ask the Seller for a recovery plan or similar to mitigate undesirable effects.

On a monthly basis, AIT Supply Chain evaluates Seller performance based on On-Time Delivery (OTD) per Purchase Order commitment dates and acceptable Quality per Purchase Order requirements for products and services (measured using internal NCRs and/or internal performance survey for contractors and service providers). If the Seller does not meet performance criteria for OTD ($\geq 90\%$ On-time) or Quality ($\geq 97\%$ acceptance rate), it will impact the Seller's performance score and the supplier will be categorized as either a medium or high-risk supplier. Categorization as a medium or high-risk supplier could impact the Seller's ability to win new awards and may even result in the disqualification from AIT's Approved Suppliers List. Seller can improve their performance score by ensuring OTD is met and to ensure products and services are provided free of nonconforming conditions. When warranted by the discretion of AIT Supply Chain, corrective action may be requested for specific issues affecting the Seller's performance. Failure to respond to AIT's corrective action request may result in disqualification from AIT's Approved Suppliers List.

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AIT Supply Chain will distribute supplier performance scorecards on a quarterly basis to AIT's top suppliers (by spend or volume). Any supplier can request their performance scorecard at any time by contacting AIT Supply Chain.

QA24 – THERMAL STRESS RELIEVE

For thermal processing unless otherwise specified refer to the AWS code for proper stress relief and hold times. Contact Engineer for approved heat treatment of unlisted AWS materials.

Invar 36 full anneal requires either 1 hour hold at 1550 degrees F or 2 hours hold at 1350 degrees F. Plus 1 additional hour of hold time for each 1.0" of thickness over 1.0". Invar 36 stress relieve requires 2 hours hold time plus 1 additional hour of hold time for each 1.0" of thickness over 1.0". Invar 42 full anneal requires either 1 hour hold at 1650 degrees F or 2 hours hold time at 1550 degrees F. Plus 1 additional hour of hold time for each 1.0" of thickness over 1.0". Invar 42 stress relieve requires 2 hours hold time at 800 degrees F plus 1 additional hour of hold time for each 1.0" of thickness over 1.0". Air or oven cool is acceptable for all processes. Upon completion a thermal graph is required along with a C of C.

QA25 – AIT SUPPLIER QUALITY MANUAL

The latest revision of the AIT Supplier Quality Manual, SQM-001, is applicable to the Purchase Order. The Seller can obtain the latest revision on the AIT website, <https://www.aint.com/user/file/SQM.pdf>.

QA26 – FOREIGN OBJECT DEBRIS/DAMAGE (FOD)

The Seller shall develop, implement, and maintain a Foreign Object Debris/Damage (FOD) process. Seller shall maintain good housekeeping to preclude introduction of or damage to any product/material caused by a foreign object(s) into any deliverable item. Seller shall employ appropriate practices to assure timely removal of residue/debris generated during manufacturing operations or tasks. In addition, packaging materials must be taken into consideration when mitigating FOD; packaging materials that generate particles, fibers, or other debris are not acceptable.

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Revision History

Rev.	Date	DCC	Comments	QA Review By	Approved By
00 - 07	In archive folder	N/A	Historical changes/ revisions to Quality Clauses	N/A	AIT Management
08	3-27-2014	N/A	Major Re-write	N/A	Phil Check
09	8-20-2015	N/A	Reinstated the quality clauses that were inadvertently left off the re-write conducted in 2014. See Quality Clause 16, 17, and second paragraph in 3. This revision closes the audit finding issued under NCR 15-006.	N/A	Robert Chianese
10	8-23-16	N/A	Added Quality Clauses 18, 19, 20.	N/A	Robert Chianese
11	12-5-16	N/A	Revised QA4, QA5, QA12 and added clauses 21	N/A	Robert Chianese
12	10-04-2017	N/A	Updated QA3	N/A	Robert Chianese
13	12-27-2017	N/A	Added QA 22 & 23	N/A	Robert Chianese
14	03-07-2018	N/A	Updated QA1 & QA12 for Material Traceability	N/A	Robert Chianese
15	09-24-2018	N/A	Added to Pre-amble section concerning flow down revision adherence.	N/A	Robert Chianese
16	11-01-2018	N/A	Revised QA3 to add additional Boeing regulations.	N/A	Robert Chianese
17	02-18-2019	N/A	Revised QA14 to new DFAR callout	N/A	Robert Chianese
18	05-13-2019	N/A	Revised QA14 & QA15	N/A	Robert Chianese
19	03-01-2020	N/A	Revised QA10	N/A	Robert Chianese
20	04-01-2020	N/A	Revised QA4 Inspection	N/A	Robert Chianese
21	03-22-2022	DCC0000083	Revised QA11 Subcontracting	N/A	Robert Chianese
22	06-01-2023	DCC0000105	Revised QA14 & QA15	N/A	Robert Chianese
23	08-08-2023	DCC0000106	Added QA24	N/A	Robert Chianese
24	2-17-2025	DCC0000131	Revised QA8	N/A	Robert Chianese
25	5-6-2025	DCC0000138	Revised QA10 and QA23. QA reviewed changes per AS9100 8.4.3.	David Rousseau	Robert Chianese
26	10-16-2025	DCC0000147	Added QA25 and QA26. Added content from PF012 – REV 13.	David Rousseau	Robert Chianese