

MARSHALL PRECISION MANUFACTURING, INC. QUALITY & RELIABILITY TERMS FOR PURCHASE ORDERS

THE FOLLOWING TERMS APPLY AS INDICATED ON THE FACE OF THE PURCHASE ORDER. IF YOU CANNOT MEET ANY APPLICABLE TERM, NOTIFY THE RESPONSIBLE BUYER IMMEDIATELY. EXCEPTION TO ANY OF THE PURCHASE ORDER CLAUSES MUST BE APPROVED, IN WRITING, BY THE MARSHALL PRECISION MANUFACTURING PURCHASING AGENT.

[Marshall Precision Management will provide the latest quality clauses.](#)

No.	TITLE	DESCRIPTION
1	Certificate of Compliance	The vendor shall furnish a Certificate of Compliance signed by an official representative of the vendor. Materials, processes, services and/or furnished items supplied in accordance with the instructions, specifications, and/or drawings furnished with the Purchase Order shall have a signed original certification included with the packing slip in the form of a Certificate of Compliance. Each certificate shall identify the Purchase Order Number, Part Number, Serial Number (if applicable), Specification, Drawing and Lot/Item Number as applicable to the content of the Purchase Order. Inspection and Test Data shall be maintained for seven (7) years and is subject to our company and or customer examination. The certificate must state the name of the manufacturer when ordered from a distributor and shall accompany each shipment.
2	Right of Entry	Our company reserves the right-of-entry to allow Marshall Precision, its customers and regulatory agencies to determine and verify the quality of work, records and material at any place, including the plant of the subcontractor.
3	MPM Source Inspection	All work performed under this order is subject to inspection or test at the vendor's plant. The buyer's representative may elect to perform inspection or test either on a random basis or to the extent of one hundred (100) percent inspection. In any event, when the item(s) is ready for final inspection or, when practical, 10 days advance; notify our Purchasing Department that source inspection is needed.
4	Government Source Inspection	Government Inspection is required prior to shipment from vendor's plant. Upon receipt of this order, promptly notify the Government Representative who normally services your plant so that appropriate planning for Government Inspection can be accomplished. The vendor shall furnish the Government Representative with drawing and specifications necessary for inspection. In the event the Government Representative cannot be located, the buyer should be notified immediately.
		NOTE: Government Source Inspection does not relieve the vendor of the responsibility for the product meeting all applicable specifications.
5	First Article Source Inspection	The supplier shall submit a sample first article for dimensional and functional approval prior to making production item(s). The vendor shall notify Marshall Precision when the item is ready for approval examination. Such examinations may be conducted at the vendor's facilities or at the Marshall Precision facility.
6	First Article Inspection	The supplier is required to inspect and record 100% of all data for the first article manufactured. The recorded inspection data shall identify each feature characteristics, the allowable tolerance limits, and the actual dimensions measured. The First Article item should be tagged or labeled, identifying it as the First Article Item. The tag should also include Marshall Precision's P.O. number, Part Name, Part Number, and Serial Number (if applicable). The First Article Inspection Report should accompany the first Article Item with shipment.
7	100 % Inspection	The supplier is required to inspect and record 100% of all data for all the items manufactured. The recorded inspection data shall identify each feature's characteristic, the allowable tolerance limits, and the actual dimensions measured. The Inspection Report can reflect all parts in the same lot and be "blanketed" with the extreme upper and lower range of actual recorded dimensions per feature. The Inspection Report should accompany the Item(s) with shipment.
8	General Inspection	The supplier is required to create and maintain records and data of all inspections and tests performed. Records shall contain the status of articles and materials and evidence of inspections and tests performed, including dates. 100% inspection shall be performed on all critical and major characteristics. Sampling Plans for minor attributes shall conform to MIL-STD-105E, Level 2 / A.Q.L. 4.0 .
9	Statistical Process Control	Statistical Process Control (SPC) shall be used to maintain control of product quality. Control charts shall be produced and maintained in accordance with ANSI specifications Z1.1, Z1.2 and Z1.3.
10	Age Controlled Material	Perishable Raw Materials: The vendor shall include the material type condition, lot or batch number, specification, manufacturer, date of manufacture, and shelf life expiration date on all perishable raw material certifications. The vendor shall supply the Hazardous Material Identification System (HMIS), the Manufacturing data Sheets, when applicable and the Material Safety Data Sheet (MSDS) with material as required. Upon receipt, 75% of shelf life must remain.
11A	Material Test Reports (Actual)	The vendor shall submit a chemical and physical test report under the applicable specification for the material shipped under this order with actual test results from samples for this specific material.
11B	Material Test Reports (Typical)	The vendor shall submit a chemical and physical test report for all materials shipped under this order with actual or typical test results from samples representative of this material.
11C	Special Process Inspection and Test Reports	The Vendor shall submit special process inspection and test reports as specified on this purchase order and/or as specified within the process specification requirements to include identification of the products processed including traceability references to the process working documents and who performed the process.
11D	Calibration Suppliers Received Condition Inspection & Test Reports	The Vendor shall submit calibration inspection and test reports as a minimum to included identification of the equipment calibrated, the received calibration condition, calibration measurements, references to documented calibration process requirements, who performed the calibration, standards used, and a statement noting that standards used are traceable to the National Institute of Standards and Technology (NIST).
12	Casting Identification	All castings shall be identified by a permanent part number and configuration or by a method that will have complete traceability of chemical, physical analysis and heat treat.
13	Castings	Physical and chemical test data of raw materials used in the fabrication of articles furnished on this Purchase Order, denoting the applicable heat treat number, batch number or date of manufacturer of materials, signed by an official representative of the Company, are to be supplied with each shipment.

14	Fracture Critical Material	The NASA Definition of Fracture Critical in Reference to NASA-STD-5019A, Fracture Control Requirements for Space Flight Hardware is: A part whose individual failure, caused by the presence of a crack, is a catastrophic hazard and that requires safe-life analysis or other fracture control assessment to be shown acceptable for flight. Parts categorized as Fracture Critical receive flow screening by NDE, proof test, or process control and are subjected to traceability, materials selection and usage, documentation, and engineering drawing requirements. Full traceability to requirements is required.
		PROGRAMS: Quality System Flowdown Requirements
15A	QMS ANSI/ASQC 9001 Required	The suppliers quality system shall conform to the requirements of ANSI/ASQC 9001, revision specific if required on the purchase order. The quality management system is subject to audit/approval at any time by Marshall Precision, our customers, and the Government.
15B	QMS AS9100 Required	The supplier's quality system shall conform to the current requirements of AS9100 and is subject to audit/approval at any time by Marshall Precision, our customers, and the Government.
15C	QMS Commercial Required	The supplier's quality system shall conform to a commercial based system incorporating "best shop practice" methods and workmanship as deemed appropriate by the company.
16	Approved Hardware Standard	Military or Federal standard materials such as AN, NAS, etc. shall be obtained from Military and Federal Qualified Products List (QPL) sources.
17	Supplier Stock Control	Supplier Stock Control shall ensure that material quantities are verified and maintained. Items shall be from current production and traceable to the data received. Manufacturer and product identification markings shall be as required by drawings and specifications. Unless our company specifies identification, manufacturer part numbers shall be used. Special tests or screening necessary to
18	Product Protection	Product protection shall comply with all specified handling, preservation, packaging and shipping requirements. Product protection practices shall assure that original quality is maintained. Commercial practices shall not be considered to relieve the supplier of the responsibility to ensure delivery of material in acceptable condition.
19	Inspection and Test Plan	An inspection and test plan for control of articles furnished in accordance with this purchase order shall be prepared and specifically written to outline the product flow from receipt of materials through fabrication, assembly, and test operations. The plan defines the inspection points throughout the manufacturing sequence and describes what, where and when inspection will be implemented to control the product. A general description of procedures and records used will be adequate. Two (2) copies of the plan shall be forwarded to the buyer within forty-five (45) days after date of order unless otherwise specified.
20	Quality Control Plan	The vendor's Quality Control Manual or equivalent for conformance to applicable program specifications shall be submitted to the buyer within thirty (30) days after receipt of order unless otherwise specified.
21	Workmanship	All items on this order shall be fabricated, processed and finished in such a manner as to be uniform in quality and appearance and free of defects.
22	Part Identification	All items supplied under this order shall be identified with complete nomenclature and part numbers in accordance with MIL-STD-130, or as specified.
23	Packaging Requirements (Unique)	Package material as to protect from damage during time of transit. Damaged material will be subject to rejection by Marshall Precision Quality Assurance Department and returned at suppliers expense. Static sensitive parts will be packed in a conductive frame or with leads inserted in conductive elastomer or foam to protect them against electrical charges. External labels shall identify the package on at
24	Packaging	Package material as to protect from damage during time of transit. Damaged material will be subject to rejection by Marshall Precision Quality Assurance Department and returned at suppliers expense. Packaging materials shall not have a harmful effect on the item coating or finishes. Solderability of solderable contacts, leads and terminations must be preserved. The material shall be packaged in containers bearing the part number. Materials are to be shipped in containers in keeping with good commercial practices to preclude any damage being incurred during shipping and storage at Buyer's plant.
25	Go Green 01	The vendor shall ensure that no ozone depleting chemicals were used in the manufacture of materials supplied under this Purchase Order.
26	Flowdown of Requirements	When work related to this PO is outsourced to a sub-tier, the supplier agrees to flow down the appropriate requirements to the sub-tier. The appropriate requirements include but are not limited to key characteristics, control of special processes, record retention, and flowdown of quality system.
27	Notification of Nonconformities	A supplier agrees to notify Marshall Precision of any non conforming product produced against this order. Suppliers are not granted authority to process "use-as-is", "repair", or "standard repair (SRP)" VIA their MRB. This applies to all deliveries against this order. If found after delivery, the supplier agrees to notify Marshall Precision of nonconformities throughout the warranty period. Sources of such defect data may include sellers' own determination, data receives from the manufacturer and reports from other buyers of the same product.
28	Traceability	The vendor shall retain objective evidence of the quality of the item supplied (manufacturing, assembly, inspection, test, and special process records) for the indicated period. These records shall be sufficient to prove conformance to all applicable specifications and drawings. These records shall be made available to Marshall Precision upon request. A. Three Years B. Seven Years C. Ten Years

29	Cybersecurity	The vendor shall comply with DFARS clause 252.204-7012 for storing, processing and/or generating Covered Defense Information as part of contract performance. Vendors have 48 hrs to report cyber incidents to Marshall Precision.
30	Counterfeit Part Prevention	A supplier shall conform to requirements of AS9100. Plan, implement, and control processes for counterfeit part prevention, changes to processes, awareness of personnel and documentation retention.
31	Customer Approval and/or Process Changes	The supplier shall contact the purchasing agent for Marshall Precision Manufacturing if you have changes to your customer approval related to this purchase order, or you have made technical changes to your process(s) related to the requirements of this purchase order.

General Quality Clause Requirements Based on Supplier Type. Any Specific Requirements Related to These Clauses will Be Specified on the Purchase Order.

1. Commercial Off-the-Shelf Suppliers: Clauses 1,10,17,15C, & 23
2. Raw Material Suppliers: Clauses 1, 2, 4, 11A, or 11B, 24, &31
3. Casting Suppliers: Clauses 1, 11, 12, 13, 24, & 31
4. Calibration Service Suppliers: Clauses 1, 2, 18, 24, 11D, and 31
5. ANSI/IEC 17025 or Nadcap Type Special Process Suppliers: Clauses 1 thru 9, 11, 14 thru 29, & 31 (See Purchase order)