



AS9100D Supplier Flow Down Requirements

The Supplier requirements below apply to all Suppliers and sub-tier Suppliers providing materials and services to 4FRONT Solutions Electronic Manufacturing (4FRONT Solutions). Acceptance of a Purchase Order from 4FRONT Solutions binds the Supplier to the Terms and Conditions listed in the Purchase Order and the requirements listed in this document. The Supplier is not authorized to outsource any portion of the Purchase Order requirements unless specifically authorized by 4FRONT Solutions and must flow down these requirements to any sub-tier Suppliers. Note that these requirements correspond with the requirements of 4FRONT Solutions' customers and with the requirements of AS9100D, Clause 8.4.3.

a. the processes, products, and services to be provided including the identification of relevant technical data (e.g., specifications, drawings, process requirements, work instructions)

Refer to 4FRONT Solutions' Purchase Order.

b. the approval of:

products and services; methods, processes, and equipment; the release of products and services;

- Each shipment must be accompanied by one legible copy of a statement of conformance unless otherwise noted in the Purchase Order. A certificate of conformance (C of C), supplied with the shipment must provide at a minimum: Supplier name, part number, purchase order number, quantity of parts, engineering revision, serial numbers (if applicable), and title and signature of authorized Supplier representative.
- Material certifications shall show quantitative analysis of each element and physical testing as required by specifications referenced. Certifications must reference all related specifications required by a drawing and list full chemical/physical properties and source.
- Traceability for Raw Material is required and shall be retained and provided to 4FRONT Solutions with product.

c. competence, including any required qualification of persons;

Supplier will ensure that employees and people working on its behalf are competent and trained in accordance with the requirements of AS9100D, where applicable.

d. the Supplier's interactions with 4FRONT Solutions;

In addition to the other requirements recorded within this document, Suppliers shall hold all information received from 4FRONT Solutions confidence and no third-party request for information will be authorized unless approved, in writing, by 4FRONT Solutions.

e. control and monitoring of Supplier's performance to be applied by 4FRONT Solutions;

4FRONT Solutions will score Suppliers based on Quality, Delivery, and/or Service. Suppliers will be issued corrective actions as warranted. Supplier late shipments or corrective actions will be reviewed at Management review meetings for increased action at Management's discretion. Any outcomes will be documented in Management Review Meeting Minutes. Suppliers that fail to perform in these areas may receive further Corrective Actions and may be considered for probation or removal from 4FRONT Solutions' Approved Supplier List.

f. verification or validation activities that 4FRONT Solutions, or its customer, intends to perform at Supplier's premises;

4FRONT Solutions and its customers reserve the right to perform verification and/or validation activities at the Supplier's premises.

g. design and development control;

Design and development control does not apply to 4FRONT Solutions' Suppliers.

h. special requirements, critical items, or key characteristics;

As per the requirements of AS9100D Supplier is responsible for the validation, and periodic revalidation, of the ability to achieve planned results of the processes for production and service provision, where the resulting output cannot be verified by subsequent monitoring or measurement.



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i. test, inspection, and verification (including production process verification);

All gauges and instruments used to verify product shall be calibrated using standards whose accuracies are NIST traceable. All provided calibration certifications shall specifically state this traceability. The Supplier shall maintain a quality/inspection system that shall ensure all goods and services conform to contract requirements whether manufactured or processed by the Supplier or procured from Sub-Tier Suppliers.

j. the use of statistical techniques for product acceptance and related instructions for acceptance by 4FRONT Solutions;

The Supplier shall use a sampling plan for product acceptance consistent with typical industry standards, unless otherwise specified or agreed upon in writing by 4FRONT Solutions.

k. the need to: implement a quality management system

- **When specifically requested by 4FRONT Solutions in writing, Supplier will maintain a quality system** in compliance to recognized Quality Management Systems and/or approved by 4FRONT Solutions.
- **use customer-designated or approved external providers, including process sources (e.g., special processes);**
When required by 4FRONT Solutions or by 4FRONT Solutions' customers, Suppliers will use customer-specified sources.
- **notify 4FRONT Solutions of nonconforming processes, products, or services and obtain approval for their disposition;**
The Supplier shall notify 4FRONT Solutions of nonconforming processes, products, or services and obtain approval for their disposition. Supplier product or services discovered after shipment by the Supplier to be nonconforming to any engineering drawing and/or Purchase Order requirement shall be immediately disclosed to 4FRONT Solutions upon discovery, including but not limited to quantity shipped, date shipped, and the extent of the nonconformance. Suppliers that receive notification of Nonconforming product shall take appropriate action to contain the nonconforming condition and prevent it from occurring again. The Supplier will be notified if formal Corrective Action is required to be submitted to 4FRONT Solutions. Errors with paperwork shall be resolved within 24 hours.
- **prevent the use of counterfeit parts (see 8.1.4);**
To prevent the purchase of counterfeit or suspect / unapproved products and to ensure product identification and traceability, the Supplier shall institute controls that include staff training on the effect and identification of counterfeit / suspect parts, the requirement of Material Certificates, Certificates of Conformity, and/or other supporting documentation as appropriate. Material and part substitutions are not allowed without 4FRONT Solutions authorization.
- **notify 4FRONT Solutions of changes to certification status, processes, products, or services, including changes of their external providers or location of manufacture, and obtain 4FRONT Solutions' approval;**
Supplier will notify 4FRONT Solutions of any change in certification status (suspension, expiration or non-continual), ownership, management, or location and are subject to re-survey and approval. Supplier will notify 4FRONT Solutions of any product or process changes or changes in approval status that affect 4FRONT Solutions' product and are subject to re-survey and approval.
- **flow down to external providers applicable requirements including customer requirements;**
Suppliers shall flow-down to Sub-Tier Suppliers the applicable requirements as required by the purchase order either specifically or by reference.
- **provide test specimens for design approval, inspection/verification, investigation, or auditing;**



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When requested by 4FRONT Solutions or its customers, Supplier will provide test specimens for inspection/verification, investigation and/or auditing purposes.

- **retain documented information, including retention periods and disposition requirements;**
Unless otherwise specified on the Purchase Order, the latest specification revision in effect at the time the lot of material/parts was originally manufactured or processed shall apply. In the event a document has been superseded, the latest revision of the superseding document shall apply. All certifications, test reports, and inspection reports, as well as receiving inspection, in process inspection, final inspection, and calibration records shall be retained for a minimum of two years, unless otherwise specified by 4FRONT Solutions. These records will be made available to 4FRONT Solutions, 4FRONT Solutions' customers, or regulatory agency upon request.
- ***prevent Foreign Object Debris (*4FRONT Solutions requirement)**
Supplier is required to establish and maintain a Foreign Object Debris (FOD) prevention program that employs appropriate housekeeping practices to ensure timely detection and removal of residue/debris generated, during operations and normal daily tasks.

l. the right of access by 4FRONT Solutions, 4FRONT Solutions' customer, and regulatory authorities to the applicable areas of facilities and to applicable documented information, at any level of the supply chain;

4FRONT Solutions and 4FRONT Solutions' customers reserve the right to perform an on-site inspection of the Supplier's facility or visit the facility. 4FRONT Solutions will give reasonable notification to the Supplier prior to the on-site inspection. The on-site inspection may include surveillance of the Supplier's facilities, procedures, production methods, processes, and the Supplier's Quality System. The Supplier shall furnish, at no cost, the necessary data as required by applicable drawings, Purchase Order, specifications, and inspection instructions to facilitate the on-site inspection.

m. ensuring that persons are aware of: their contribution to product or service conformity; their contribution to product safety; the importance of ethical behavior.

Supplier shall be committed to the highest standards of ethics and business conduct. Supplier must comply with the law, honor commitments, act in good faith, and be accountable. Supplier must strive to maintain full compliance with all laws and regulations applicable to the operation of the business and customer relationships. Supplier must not offer, promise, authorize, or provide, directly or indirectly, anything of value (including business gifts or courtesies) with the intent or effect of inducing anyone to engage in unfair business practices. Supplier will avoid involvement in activities that may be perceived as a conflict-of-interest. Supplier will respect the legitimate proprietary rights and intellectual property rights of customers and Suppliers and take proper care to protect sensitive information, including confidential, proprietary and personal information. Supplier will support product safety by ensuring robust management of special requirements, critical items and key characteristics. If there are concerns with respect to product safety, Supplier will communicate them to 4FRONT Solutions. If there is a concern at the Supplier's premises with respect to safety during the manufacture of the product, Supplier will notify its own employees of the concern and whenever possible, mitigate the concern.

Supplier will ensure that employees and people working on its behalf are aware of:

- Their contribution to product or service conformity
- Their contribution to product safety
- The importance of ethical behavior