

Quality Control in Aerospace Parts Procurement

Aerospace Parts Procurement Glossary

1. Acceptance Criteria:

- Definition: Specific standards or requirements that a product or service must meet to be accepted by the customer or end-user.
- Related Terms: Quality standards, specifications, performance metrics.
- Example: The acceptance criteria for aerospace parts may include dimensional tolerances, material composition, and surface finish requirements.

2. Airworthiness:

- Definition: The measure of an aircraft's suitability for safe flight, as determined by regulatory authorities.
- Related Terms: Certification, compliance, safety standards.
- Example: The airworthiness of aerospace parts is crucial to ensure the overall safety and reliability of the aircraft.

3. Compliance:

- Definition: Adherence to laws, regulations, standards, or specifications set by regulatory bodies or industry organizations.
- Related Terms: Conformity, regulations, quality assurance.
- Example: Ensuring compliance with aerospace industry standards is essential in aerospace parts procurement to avoid regulatory penalties.

4. Critical Parts:

- Definition: Components of an aircraft that are essential for safe operation and often have strict quality control requirements.
- Related Terms: Safety-critical parts, mission-critical components.
- Example: Critical parts in aerospace include engines, landing gear, and avionics systems.

5. Inspection:

- Definition: The process of examining, testing, and evaluating aerospace parts to ensure they meet specified requirements.
- Related Terms: Quality control, testing, verification.
- Example: Inspections are conducted at various stages of the aerospace parts procurement process to identify defects or non-conformities.

6. Non-Destructive Testing (NDT):

- Definition: Techniques used to evaluate the properties of materials or components without causing damage.
- Related Terms: Ultrasonic testing, X-ray inspection, eddy current testing.

- Example: NDT methods are commonly used in aerospace parts procurement to detect defects such as cracks or voids.

7. Procurement:

- Definition: The process of acquiring goods or services, including sourcing, purchasing, and contract management.

- Related Terms: Supply chain management, vendor selection, purchasing.

- Example: Effective procurement practices are essential in aerospace parts procurement to ensure timely delivery and cost-effective sourcing.

8. Quality Control:

- Definition: The process of ensuring that products or services meet specified quality requirements and standards.

- Related Terms: Quality assurance, inspection, defect prevention.

- Example: Quality control in aerospace parts procurement involves rigorous testing, inspection, and verification to maintain product integrity and safety.

9. Traceability:

- Definition: The ability to track and trace the history, location, and usage of aerospace parts throughout the supply chain.

- Related Terms: Serialization, part identification, record-keeping.

- Example: Traceability is essential in aerospace parts procurement to ensure accountability, quality control, and regulatory compliance.

10. Vendor Qualification:

- Definition: The process of evaluating and approving suppliers based on their capabilities, quality standards, and compliance with requirements.

- Related Terms: Supplier assessment, vendor approval, supplier performance.

- Example: Vendor qualification is a critical step in aerospace parts procurement to ensure that suppliers meet the necessary quality and reliability standards.