



In This Issue

Monthly Newsletter:

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Sequence & Interaction



Determining the Sequence and Interaction of your QMS Processes



Continuous Improvement

Last month we discussed how to identify the QMS processes to link into the discussions regarding KPIs. Now that you've identified your QMS processes from the 30,000' system level, the AS9100 standard requires we show how they are linked.

Cyber Security for Aerospace

Many organizations use the Plan-Do-Check-Act diagram in the front of the AS9100 standard as their Interaction of Processes, but the authors have provided guidance material that states organizations cannot use this diagram as their Interaction of Processes diagram. Still other organizations show a simple, one-way flow chart of their processes, with inputs coming in from the customers and synthesized into product deliverables. However, in this case, are the interactions clearly defined?

Workplace Maintenance

Organizations must show how information and/or products are transferred to and from processes. In this manner, a simple one-way flow chart wouldn't suffice, as it does not show any back and forth, be it information or product, between the processes. Also, in a simple one-way flow chart, what happens if a process isn't always utilized? A good example would be Purchasing. What if an order is received and the organization has stock to fulfill the order? In this case, the Order Entry / Sales process would bypass the Purchasing process altogether and go straight to the Order Fulfillment process.

Calibration VS Verification

Be cautious on how you define your Interaction of Processes and ensure all interactions are clearly defined. If you need any help, please reach out to us!

Our Mission
CDS AQS provides a total business management solution for small to mid-sized companies by establishing quality and business management systems, providing employee training and development and optimizing company processes and systems to increase profitability and efficiency.

Our Motto
Partnering with small to mid-sized companies to reduce customer risk and increase profitability by optimizing internal processes via risk identification, variation management and human capital investment.

Our Goal
Our goal is to take your company data and turn it into action via system solutions tailored specifically to your company's needs. These system solutions will then allow you to better utilize both human and equipment resources.



Having issues determine your Processes & Interactions?
Let CDS Advanced Quality Solutions help!



Why is Continuous Improvement Important?



The aerospace industry is one of the most advanced and technology-driven industries in the world. It is an industry that is always pushing boundaries and exploring new frontiers, be it in design, engineering, or manufacturing. With the increasing demand for modern, efficient, and sustainable aircraft, aerospace manufacturing has become more challenging and complex than ever before. As a result, the industry has adopted continuous improvement strategies to enhance productivity, reduce costs, and increase efficiency.

Benefits include: Identifying and eliminating sources of variation and error, Improving efficiency, Increasing customer satisfaction, Reducing costs.

Continuous improvement is critical to the success of aerospace manufacturing, enabling companies to improve production processes, reduce costs, and enhance efficiency. Innovations such as additive manufacturing, automation, and digitalization have transformed the way aircraft are designed, manufactured, and serviced. The trends in aerospace manufacturing, including sustainability, AI, and digital twins, are shaping the future of the industry, enhancing productivity, and driving innovation. As the aerospace industry continues to evolve, continuous improvement will remain a vital strategy for success.



Having issues identifying your Continuous Improvements?
Let CDS Advanced Quality Solutions help!





Cyber Security Importance for Aerospace Companies

Cybersecurity is crucial for aerospace companies. Strong defense on advanced technologies, communication, and control systems, as well as the management of sensitive data, makes cyber security essential. A compromise system could lead to loss of life in catastrophic consequences.

The aerospace in aviation sector are high value targets for cyberattacks. Threat actors, including state sponsored hackers, are increasingly targeting aviation infrastructure, satellite systems, aircraft communication networks, and Brown systems. A successful cyber attack could disrupt flight operations, compromise safety, or even allow attackers to manipulate critical control systems.

To counter these evolving threats, aerospace and aviation companies must focus on several key areas:

- 1) Protecting aircraft systems:** Modern aircraft depend on a variety of digital systems to manage navigation, communication and performance.
- 2) Securing communication channels:** From air traffic control to satellite based communications, secure channels are essential to ensure the accuracy and safety of aviation operations.
- 3) Strengthening supply chain security:** Aerospace relies on a complex network of contractors and suppliers, making it critical to secure the entire supply chain against cyber intrusions that could compromise sensitive data or operations.
- 4) Maintaining operational integrity:** Cyberattacks can potentially lead to operational disruption, including grounded flights or compromised aerospace defense systems.

Calibration VS Verification

Calibration and verification are essential processes in various industries, ensuring accuracy and reliability of measurement instruments. Understanding the differences between these two procedures is crucial for businesses who rely on precise measurements.

Calibration is the meticulous process of adjusting and fine-tuning a measurement instrument to align it with a standard reference. This ensures that the instrument provides accurate and reliable measurements.

Verification, on the other hand, is a different process. It aims to confirm that a measurement instrument is functioning correctly and within its specified tolerances.

Verification does not involve making adjustments to the instrument itself but rather checks if it meets the predefined criteria for accuracy.

Calibration and verification are distinct processes that play crucial roles in ensuring the accuracy of measurement instruments.



**Having issues with calibration & verification?
Let CDS Advanced Quality Solutions Help!**



**Do you really know if your IT System is secure from attacks?
Let CDS Advanced Quality Solutions help!**



Workplace Maintenance (Housekeeping)



Workplace maintenance, also known as workplace "housekeeping", is the process of cleaning and organizing materials and inventory to help improve the functionality of the space. It helps to create a hazard-free work environment that can have major benefits, such as reducing workplace injuries and improving overall productivity.

Below are some benefits of good maintenance in the workplace:

- 1) Creates an effective use of space
- 2) Establishes better control of tools and materials
- 3) Exposes potential hazards
- 4) Creates opportunity for discussion
- 5) Reduces injuries
- 6) Increases productivity
- 7) Reduces fire hazards
- 8) Improves morale
- 9) Creates strong first impressions
- 10) Easily identify missing items
- 11) Removes harmful materials



Establish & maintain good cleaning and organizing routines & habits!



**Need help with Maintenance and Housekeeping?
Let CDS Advanced Quality Solutions Help!**



Contact Us Today

If you like our Newsletter, share with your friends and Colleagues!

Do you have topics you would like to see?

Do you have the need for trainings?

CDS AQS is here to help you!

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