

Why align to Industry Standards?

Receiving specific requirements from each individual Customer makes it difficult for Suppliers to effectively align a standard business process. As a result most Aerospace and Defense Customers are moving to industry standard requirements in an effort to reduce this burden on the supply base.

What is Advanced Product Quality Planning (APQP)?

APQP is a phased and gated methodology for product and process development starting with conceptual product needs and extending throughout the product life cycle. Gate 4 of APQP is PPAP and used to validate that the production process has demonstrated the potential to produce products that consistently fulfill all Customer requirements. Implementing APQP will enable Suppliers to maximize benefits by executing elements at the appropriate development phase.

What are the Benefits?

- Improved product quality by anticipating and mitigating risks, eliminating defects and reducing process variation
- Shorter lead time by reducing waste and rework and better manage capacity
- Lower costs

What is the intent of Element 10.2? How do I comply?

There has always been an expectation that parts that have achieved PPAP Interim A and Full approval have an elevated quality signature. The addition of Element 10.2 is to define the quality signature for those approval levels to ensure we're achieving that expectation.

The compliance expectation is simply to track the QN rate of the parts being delivered. All businesses have a method of doing this during their normal course of operations. The new aspect this element brings is a requirement to achieve a specific level of performance before the part will be approved at Interim A or Full. The expectation is that the producer will track parts being delivered to PW and the rate in which they had QNs.

To be considered a "Production Process Run" there needs to be a sample size of at least 25. The reporting format can be whatever the producer uses to know the defect rate of those parts. This could be copies of travelers with documented QNs (or lack of QNs), screen shots of electronic systems or a table showing the parts and their QNs. A second dimensional report for all characteristics needs to be done at the end of the production run and analyzed for any shifts compared with the FAIR that may need to be considered for action.

Where can I find training and guidance on APQP and PPAP?

[SAE IAQG Supply Chain Management Handbook \(SCMH\)](#)

[American Society for Quality \(ASQ\)](#)

[Automotive Industry Action Group \(AIAG\)](#)

External training providers

What is the online PPAP submission tool?

UTC has implemented an online solution for PPAP submissions call EtQ Reliance which will be the primary method for submission and approval going forward. Suppliers will be notified during the on-boarding process, until such time the current submission methods apply.

Where can I find more information on changes in the current revision?

A 'Revision Comparison' can be found in the UPPAP toolbox on the UTC website. For further information contact your MFP.

How do I communicate a process change to the Customer?

For a change in the process ASQR-01 Form 2 should be used to communicate the change to the Customer. Resubmission requirements for the change will be defined by the MFP.