APQP 4 Wind®

APQP4Wind vs. ISO, IATF, Lean & Six Sigma

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Topics

- APQP4Wind vs. ISO 9001
- APQP4Wind vs. IATF 16949
- APQP4Wind vs. Six Sigma
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APQP4Wind vs. ISO 9001

APQP4Wind contains additional requirements to ISO 9001. Based on the organization's already certified management system, there are additional requirements to, among others [ref. to ISO 9001 requirements]:

Determination of processes [4.4]
Knowledge of customers' requirements, voice of customer, communication, etc. [5.1.2]
Planning of the processes and projects, Product Quality Plan, and the management of risks [6.1]
Planning, executing, and verification of design [8.3]
Control of processes [8.4]
Change management [6.3 & 8.5.6]
Product and process validation and release [8.6]
Communication with the customer [8.4]

APQP4Wind vs. IATF 16949

APQ4Wind is a conversion of the IATF requirements into suitable requirements for the wind industry.

While the tools remain the same, APQP4Wind requirements have been adapted to reflect the unique characteristics of the wind industry, specifically its small batch sizes and high complexity, compared to the large-scale serial production typical of the automotive sector.

Two new tools have been added for the wind industry: the conditional approval of the Parts Submission Warrant (PSW) and the PSW Deviation Sheet.

APQP4Wind vs. Six Sigma

Six Sigma and **APQP4Wind** both address process quality, capability, and continuous improvement: Six Sigma as hard-core statistical analysis, APQP4Wind tools strive for a more hands-on approach to capability and improvements.

Six Sigma is a statistical improvement method focused on long-term process optimization.

APQP4Wind applies standardized requirements for process documentation, baseline capability analysis, control of changes and continually improvement, during the development and ramp-up of new products and processes and during changes. APQP4Wind Sections 4.5 and 5.5 leverage selected Six Sigma tools (like capability analysis) but within a fixed structure and **without requiring deep Six Sigma training**.

APQP4Wind vs. Lean

Lean contains tools for determining, describing, and improving the organization's processes - APQP4Wind Phase 4 Process Design & Development.

Other tools in the Lean toolbox are relevant for other APQP4Wind requirements, such as process improvements, process control, tool design, and control of maintenance.

Why APQP4Wind

The scope of requiring APQP4Wind in the wind industry is to reduce the enormous amount of Cost of Poor Quality (COPQ) from scrap, non-conformities (NCs), rework, repair, etc., and thereby reduce the overall risk in the industry.

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Why APQP4Wind

By applying the approach of APQP4Wind, the industry will:

- **Gain a preventive approach to quality**
- **Shift from quality control to quality assurance**
- **Enable the supplier base to mature globally**
- **Support standardization and simplification of processes to reduce time to market and increase efficiency**
- **Support profitable growth**

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Questions/Comments?

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