IHS Operational Excellence & Risk Management

Quality Risk Management

For Design & Manufacturing

Today the pace of innovation is relentless and excellence in design and manufacturing is what drives you to invest in continuous improvement for your products and processes.

BENEFITS:

- Enable critical expert knowledge retention & sharing
- Reduce engineering time to perform FMEAs
- Accelerate time to market for new product introductions
- Provide enterprise visibility to risk profiles from the enterprise level down to specific categories and groupings
- Allow consistent and systematic measurement of all product quality risks

As the pace of new product introductions increases, challenges such as decentralized design and manufacturing and complex supply chains make it difficult to ensure consistent product quality demanded by customers.

The IHS Quality Risk Management Solution **connects** your organizational knowledge, **integrates** your processes and **empowers** your people to meet customer demands for product quality excellence.

A standardized and consistent process is essential to manage inherent risks in design and manufacturing. You need to see it, to measure it, to then improve it. Many companies have now adopted standards such as ISO 9001 and implemented quality management systems (QMS) to improve quality - however they continue to struggle with:

- Silos of quality information managed by departments or by business units
- Knowledge management and retention of lessons learned
- Ensuring closed-loop processes where all action items are assigned, addressed and closed
- Visibility into risk profiles and quality metrics across the enterprise, down to specific categories and groups

What software and technologies support your management systems?

The IHS solution, with its proven enterprise software, content and domain expertise, helps companies strengthen and improve their product quality processes. It does this by enabling rigorous and proactive risk assessment methodologies such as Failure Modes and Effects Analysis (FMEA) and Fault Tree Analysis (FTA). It creates a central knowledge base for your company – allowing you to improve design and manufacturing by leveraging lessons learned and reducing the communication gap between departments and business units that lead to repeat mistakes and costly re-work.

RESULTS

"The IHS solution has helped us reduce development time while increasing the quality and consistency of our Advanced Product Quality Planning (APQP) documents."
-Global Manufacturer

"The IHS solution strengthens our quality improvement management system, ensuring consistency and collecting data to help us reduce quality non-conformance and gain visibility into all FMEAs across the company."
-Global OEM Manufacturer

"The IHS solution has put more visibility on the process. In the past, we didn't know if: (a) these activities were being done; and (b) what level they were being done at. Now, we can measure those things, so the ability to measure performance gives us the ability to improve it."
-Global OEM Manufacturer

With the IHS Quality Risk Management Solution you can…

Link Critical Quality Information

- Create knowledge-driven, data-centric quality specifications such as FMEAs and control plans that are consistent across the enterprise and facilitate business process automation, collaboration and continuous improvement.
- Ensure shared quality specifications are linked appropriately at each step of the lifecycle so that data is entered once and synchronized across stages.
- Enable better traceability for compliance or customer requirements to more effectively respond to audits or customer requests.

Create the Capacity for Knowledge Retention & Sharing

- Ensure that critical engineering knowledge is captured and retained within your organization.
- Create a comprehensive knowledge-base of experiences, built on a consistent vocabulary of failure modes, effects, causes and other quality characteristics. This library of lessons learned is then easily and directly accessible in subsequent development cycles to improve the quality of designs and value of specifications.

Improve Product Quality

- Systematize action management, recommendation tracking, corrective and preventive actions (CAPA) and change management to ensure a closed-loop process and prevent repeat issues.

Gain Consistency and Visibility

- Improve the consistency of risk ranking by having standardized definitions and applications for likelihoods, consequences, and severities across teams.
- Increase visibility into risk assessments across manufacturing sites, design centers, projects, business units and the global enterprise to prioritize and mitigate top risks.
- Produce quality management reports and dashboards to surface risk data previously unseen to help reduce product defects, recalls and minimize production downtime.

Increase Efficiency

- Shorten time to conduct risk assessments, increase engineer productivity and accelerate time-to-market by providing the ability to share knowledge and automate processes across departments and teams.
- Consolidate and streamline quality risk data that may currently be dispersed over numerous documents or spreadsheets across your organization so that they are turned into collaborative specifications that enable continuous improvement.

Leverage a Community of Best Practices

- Gain access to a community of industry-leading peers, as well as IHS domain experts and data scientists. The combination of which have created content and best practices that accelerates your time to value and helps you attain your next round of continuous improvements.

Engage today with IHS to drive your quality management goals.

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ABOUT IHS

IHS is a global information company with world-class experts in the pivotal areas shaping today's business landscape: energy, economics, geopolitical risk, sustainability and supply chain management. We employ more than 8,000 people in more than 31 countries around the world.