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Ingenuity for life

Siemens Digital Industries Software

Optimizing product lifecycle quality management with Opcenter Quality

Quality, traceability and compliance management for continuous improvement

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Optimizing the product lifecycle

The Siemens Digital Industries Software cross-industry quality management software, Opcenter Quality, which has been on the market for over 30 years, provides you quality management solutions to support the optimization of the processes involved in your product life cycle. The software helps you create the necessary degree of transparency of production processes to enable prompt and effective intervention in the event of target deviations.

The Opcenter Quality solutions are often used due to their synergies with existing ERP/product lifecycle management (PLM) systems and represent an integral component in the support of risk management.

Continuous improvement processes

The plan-do-check-act (PDCA) cycle describes the phases of the continuous improvement process and forms the basis of all quality management systems. The cycle is designed to promote consistent and sustainable improvements to production processes.

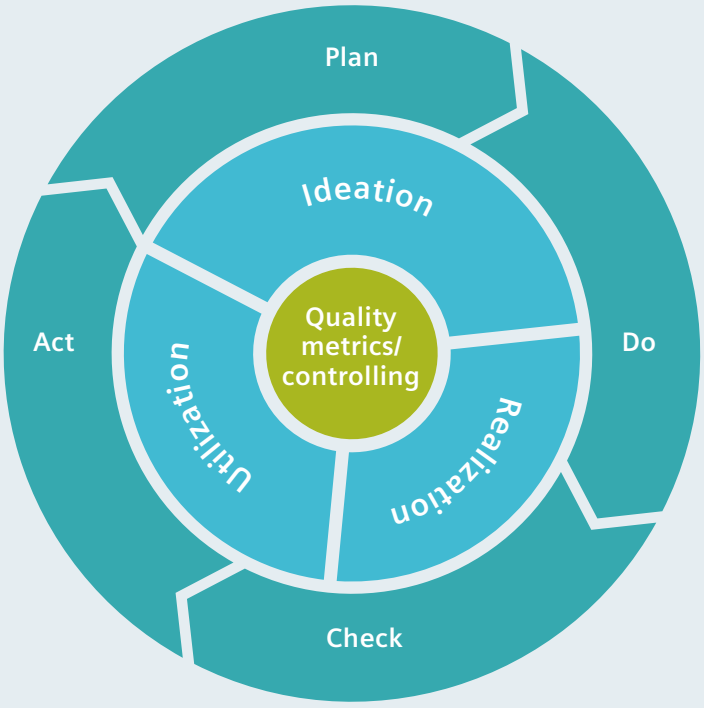
Plan involves analyzing the status, developing improvement potentials and the compiling conceptual realization.

Do embodies the practical realization of the concept, which is tested on a small scale using simple means and test equipment.

Check generates and checks results of the test run and sets the standard.

Act, the last phase, involves wide-scale implementation of the new standard and regular monitoring through audits.

The plan-do-check-act (PDCA) cycle describes the phases of the continuous improvement process and forms the basis of all quality management systems.



Delivering unique range and depth

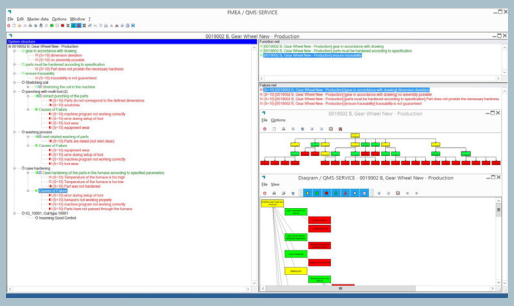
The Opcenter Quality solutions help you support quality management in the digital enterprise with the following functionality:

- Advanced product quality planning (APQP)
- Control plan (process flowchart)
- Audit management
- Failure mode and effects analysis (FMEA)
- Inspection plan management (IPM) including graphical options
- Concern and complaint management (CCM)
- Statistical process control (SPC) in-process inspection
- Incoming goods/outgoing goods inspection
- Integrated workflow management

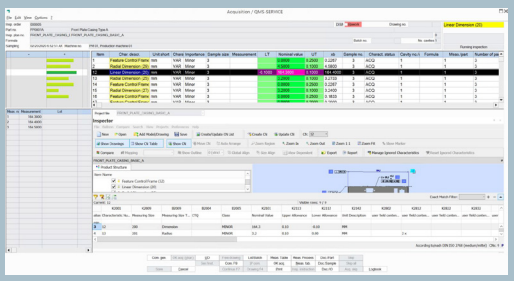
Plan: Plan the product quality within the engineering process as well as how to control it during the manufacturing of the product

Do: The manufacturing of a product is closely connected to the inspection and monitoring of the product

Plan



Do

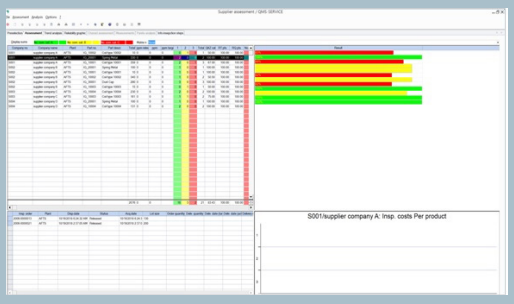


Eliminating waste in production facilities

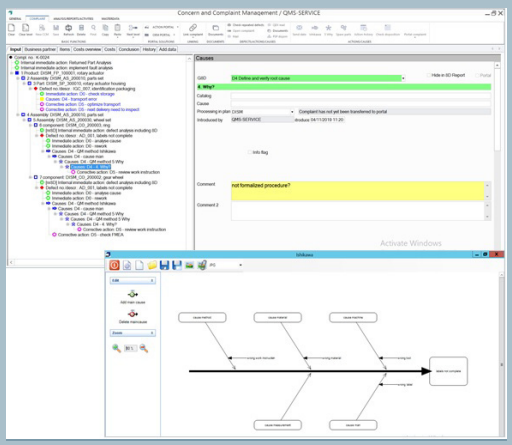
Many production companies are aware of the waste that is generated in their production facilities. The source of this waste, however, is often unclear. To save costs and enable sustainable competitive improvements, your company must identify all information relevant to the production process, including how to:

- Reduce process times
- Reduce quality and defect costs
- Manage key performance indicators (KPI) and transparency for target decision support
- Support corporate compliance
- Leverage vulnerabilities analysis, best practice software solutions, implementation in the existing information technology (IT) environment and professional training of your employees

Check



Act



Check: Being able to visualize production results and compare them to the specifications minimizes analysis deviations

Act: Initiate the problem solving process to mitigate the deviation and support continuous improvement in product planning

Perform Quality processes by capturing all the complexities

One of the main demands made of quality management systems (QMS) is the ability to integrate into existing, higher level systems. Opcenter Quality offers you an integrated, bidirectional solution for the exchange of all relevant order data, and helps you maintain a smooth flow of information and alignment of master data.

The interfaces are applied in accordance with the customer's existing IT landscape. In addition to file-based data exchange, direct database connections are provided.

Opcenter Quality provides you with tools to simplify the connection of complex measuring devices, reducing manual inspection and associated costs. Interface to superior management systems is of particular importance in executing reliable data exchange among your company's information systems. The acquisition and processing of data from subordinate systems, such as gages, measuring machines, are main requirements of a production management system.

References

The Opcenter Quality solutions from Siemens Digital Industries Software are used in more than 4,500 customer installations worldwide:

- Automotive (OEM, Tiers, Tire Manufacturers)
- Heavy Equipment and Special Machinery
- Electronics
- Semiconductors
- Aerospace & Defense
- Medical Devices
- Energy

About Siemens Digital Industries Software
Siemens Digital Industries Software is driving transformation to enable a digital enterprise where engineering, manufacturing and electronics design meet tomorrow. Our solutions help companies of all sizes create and leverage digital twins that provide organizations with new insights, opportunities and levels of automation to drive innovation. For more information on Siemens Digital Industries Software products and services, visit siemens.com/software or follow us on LinkedIn, Twitter, Facebook and Instagram. Siemens Digital Industries Software – Where today meets tomorrow.

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