Automotive Core Tools Fully Integrated in one Software

ISOQualitas.CoreTools® is a complete software that meets all AIAG's quality Core Tools requirements (APQP, PPAP, FMEA, MSA, SPC), as per IATF 16 949: 2016 plus VDA2, for the German OEMs. It has a host of simple but powerful productivity and planning tools as well as Work Instructions linked to all the Core Tools documents.

ISOQualitas.CoreTools® is user friendly and intuitive, so multi-disciplinary teams can focus on content rather than spending time formatting documents. Intelligent data sharing and the ability to reuse existing information means no more double-entries and a productivity gain of up to 80% as compared to manually managing and reporting Core Tools.

Benefits and Advantages

Eliminate consistency errors.

All product and process data are fully integrated in such a way that development data and reports are consistent with data and information used at the shop floor. Besides data integration, ISOQualitas.PLM automatically checks product characteristics, process parameters, process operations and all documents and reports for consistency.

Advanced user management

In ISOQualitas.Core Tools, the access privileges are set at the individual user level for each module to match their role and responsibility within your organization. A full audit trail tracks and logs changes by users.

Powerful planning tools

All planned activities such as APQP Planning, FMEAs, Global 8D, and others are centralized in a single management tool with automated notifications and alerts to keep track of activities and help manage deadlines.

Constantly updated to new requirements.

Includes the new AIAG-VDA FMEA Handbook with an intuitive interface and easy migration from the outgoing 4th Edition. An intelligent FMEA Family approach helps optimize your analysis and actions.

Needing more Power?

Seamless transition to ISOQualitas.PLM for companies that want to go beyond Core Tools requirements, such as: Global 8D, Non-Conformity Reports, Customer Specific Requirements, Engineering Change Requests, Production Management, Incoming Material Management, and others. ISOQualitas.PLM is a perfect solution for companies that want to manage quality requirements throughout their entire product lifecycle.

Production and Feedback
Product and Process Validation
Process Development
Product Development
Program Planning

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Elevating Core Tools Compliance and Productivity

Features

Easy and Fast Configuration

ISOQualitas.PLM has a simple, fast, and easy configuration and installation requiring only a small investment in time and resources:

- Organization information (including multi-plant in the same corporation).
- Users registration with access level definition to each module and configuration of favorite modules per user.
- Customer and suppliers management.
- The configuration of favorite modules set by each individual user.

Project Planning and Management

The Planning and Management modules allow users to set, organize, and assign all project tasks, deadlines, and critical paths, with real-time alerts, progress reporting, and monitoring, including:

- Configurable list of tasks.
- Automatic task duration calculation.
- Determine "critical path" tasks.
- Gantt diagrams based on tasks and deadlines.
- Link tasks to ensure consistent deadlines.
- Tasks status automatically updated based on activity completion.
- Set follow up e-mail and popup alerts for tasks and e-mail notification alerts for completed tasks.
- Automatic task update across all modules and functions.
- Automatic task status verification prior to project completion.
- Tasks management report for individual user, for specific teams or general (all users).

Product Data Management

The Product and Process Data Management modules stores and manages product and manufacturing process data. From these modules, users have a robust control over any product or process data change at any time during the product lifecycle.

- Parts Management.
- Product Characteristics / Process Parameters.
- Manufacturing Process Operations.

Product Development

The Product Development modules support product design requirements from concept to final configuration, including:

- Product/Process Data Management - PDM.
- Design FMEA – (As per FMEA VDA / AIAG).
- DVP&R - Design Verification Plan and Report.
- Prototype Control Plan.
- Definition of product special characteristics.

Manufacturing Process Development

The Process Development modules support the product manufacturing process according to specific automotive industry requirements, including:

- Data Management Product/Process - PDM.
- Manufacturing process operations management.
- Process Flow Diagram.
- Characteristics Matrix (Process/Product).
- Process FMEA (as per FMEA VDA / AIAG).
- Pre-launch and Production Control Plans.
- Process Reaction Plans.
- Work Instructions, Visual Aids.
- Process setup instructions.
- Setup control and Inspection Reports.

Features

FMEA AIAG-VDA Handbook

Six-step process with automatic AP definition, Actions Management and Reports to easily identify the Risks and Recommended actions:

- Fully compliant with the new handbook definitions.
- Easy migration from outgoing 4th Edition FMEAs.
- Severity, Occurrence and Detection Criteria.
- Tips for each FMEA column.
- Automatic AP definition with easy access to AP logic.
- Powerful and consistent Family FMEA approach.
- Structure analysis libraries for better consistency and productivity.
- Ability to copy data between FMEAs.
- Direct access to Non-conformities and Lessons Learned database.
- Preventive and Corrective Actions with Task Management, alerts and e-mail notifications
- Consistency between PFMEA, Control Plan, Flow Chart and Characteristics Matrix.
- Tasks management report for individual user, for specific teams or general (all users).
- Print to Standard paper or Large paper for better viewing.

MSA - Measurement Systems Analysis

The Measurement Systems Analysis modules support all studies required by the MSA Reference Manual 4th. Edition, including:

- Measurement System Management, including calibration management as per ISO-17025.
- Stability, Bias and Linearity studies.
- R&R Study - Variables (X-R and ANOVA Methods).
- R&R Study - Attributes (Cohen Method and Gray Zones).

Process Capability Studies

The Process Capability Studies module supports all studies required by the SPC Reference Manual 2nd. Edition, including:

- Process Stability Assessment (X-R Chart, X-σ Chart, Individual-Moving Range Chart).
- Samples Distribution Assessment: Normal, Lognormal, Exponential, Weibull and Real (Kernel).
- Process Capability Indexes: Cp / Cpk, Pp / Ppk; Cm / Cmk, PPM, etc.

APQP Requirements and Core Tools

ISOQualitas.PLM has everything to ensure compliance with IATF-16949 and the Core Tools requirements. All activities from product concept to end of life disposal are addressed in a logical, consistent, and user-friendly manner, including:

- APQP Planning.
- Design and Process FMEA (as per FMEA VDA/AIAG).
- Team Feasibility Commitment.
- Process Flow Diagram & Characteristics Matrix.
- Process Control Plan.
- Work Instructions.
- Measurement Systems Analysis .
- Statistical Process Control.
- Dimensional/Material and Performance Results.
- APQP Checklists & APQP Summary and Approval.
- Production Part Approval Process (PPAP).
- VDA Requirements (German OEM Suppliers).

PPAP and VDA2 Approval Processes

The Product Approval Processes modules support all requirements of the PPAP Reference Manual 4th Edition and the VDA Band 2 Version 2012, including:

- Dimensional, Material and Performance Test Results.
- Part Submission Warrant – PSW
- Production Process and Product Approval- PPA - VDA2 - 6th Edition..
- Product Structure - BoM (VDA).
- Report of Acquired Materials.

Features

System Requirements

Hardware
Processor: 1Ghz Minimum, 4Ghz recommended
RAM Memory: 1Gb Minimum, 4Gb Recommended
HD available space:
Workstation: 2Gb Minimum
Server: 4Gb Minimum
Display Resolution: 1280 x 768px minimum

Software
Our products are tested to ensure stable operation in the following operating systems:
Workstation:
- MS-Windows 7, 8, 8.1, 10 and 11.

Server Systems x86 or 64bits:
- MS-Windows Server 2008/R2 and MS-Windows Server 2012/R2 or later.
  Cloud Database on MS Azure, no Server requirements apply

Databases
- MS-SQL Server 32bits, 64bits, x86 - Version 2008 or later, including MS-SQL Server Express and MS Azure Cloud Environment.

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