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Introduction

MAHLE is a leading international development partner and supplier to the automotive industry as well as a pioneer for the mobility of the future. The group's product portfolio addresses all the crucial issues relating to the powertrain and air conditioning technology—both for drives with combustion engines and for e-mobility. In 2019, the group generated sales of approximately EUR 12.0 billion with more than 77,000 employees and is represented in more than 30 countries with 160 production locations

Worldwide competition, changing customer expectations, and product requirements necessitate the continuous improvement of all products, processes, and corporate procedures. The quality and position of our products in the world market are also directly affected by the quality of our suppliers' products. Increasing customer requirements and highly dynamic global markets require a high degree of responsiveness, flexibility, and global orientation from us and our suppliers. The continuous improvement of products and processes as well as the sustained preservation of quality and costs affects the entire procurement network, in which you as a supplier play an important role. These guidelines are intended to outline the expectations, requirements, prerequisites, methods,

and implementation examples necessary to achieve our common objectives. These guidelines are generally binding for all products and services provided by a supplier to MAHLE. Where exceptions from this guideline are accepted (e.g. certain machinery, tools, services & non-production material), it will be communicated separately through our organization upon request. Further guidelines may remain on regional/plant level.

Stefan Maier
Vice President Corporate Purchasing
MAHLE Group



Requirements and benefits

Our requirements placed on you as a MAHLE supplier or a provider interested in future collaboration, as outlined below, are an important pillar for an efficient and successful business relationship. Your fundamental willingness to accept the obligations is a prerequisite for our mutual business relations.

From you as a supplier we expect dedication to accept and implement the following requirements:

- Zero defect quality: suppliers need to commit to zero defect quality targets
- Cost performance: year over year savings above market level
- Logistic excellence: fulfillment of MAHLE's logistic requirements
- Drive innovation: proactively initiate VA/VE activities as a contribution to MAHLE's technological advancement
- Global capability: support of our global activities as and where required
- Corporate social responsibility: adherence to the MAHLE supplier code of conduct

We see you as a creative and innovative partner on the procurement market, who supports us with your experience in the expansion of our position as technology leaders. The benefits are as follows:

- Easier access to additional business segments as a qualified MAHLE supplier
- Participation in the innovation and creativity potential of the MAHLE Group
- Potential sales and market share growth
- Integration in international development projects and access to new markets
- MAHLE as a reference in your customer list



The materials and products we procure from our suppliers have a crucial impact on the quality of our products. The extremely high requirements in the automotive industry challenge us and our suppliers to achieve excellence every day. We accept this challenge.

Overview

The main steps of the MAHLE Supplier Management System

During the supplier selection process, potential suppliers stand out by meeting our requirements for specifications, innovation, quality, and cost. Partnership and trust form the basis of our collaboration with suppliers. After being nominated, our suppliers assume responsibility to achieve challenging objectives. Crucial requirements include the production and delivery capabilities as well as the fulfillment of our quality expectations, starting on the first day of production all the way to the end of the product life cycle. A large portion of the purchased parts and the corresponding production processes are developed by our suppliers. This underlines the importance of and our high demands on development and procurement partners worldwide when it comes to the design of MAHLE products.

Throughout the product and process development and series production stages, all conceivable risks must be identified and minimized as early as possible. Our direct suppliers must assume responsibility for the entire supply chain of the ordered parts — starting from their initial interaction with the MAHLE Group to their own suppliers and beyond — which is evaluated during the risk assessment process.

Our suppliers must demonstrate their ability to manufacture and supply production parts that meet all relevant requirements during the approval process. They must also demonstrate stable production and delivery processes and production tools at the agreed cost prior to the commencement of series production. The responsibility for performing all necessary steps lies with the supplier.

Suppliers must clearly identify and resolve any problems that occur during the product and process development or series production as effectively as possible. A defined escalation procedure will result in the efficient use of resources in the problem-solving process. The problem shall be addressed based on open communication, trust, and a functional partnership. The supplier will be responsible for the problem-solving process, while including the MAHLE Group where necessary.

Supplier selection	Quality & logistics planning	Series production	Long-term supply obligation
RFI and RFQ Evaluation Selection Nomination	Project planning and definition Product development Process development Product and process approval Series production approval	Supplier monitoring Continuous supplier evaluation Supplier development Continuous improvement Complaint management Productivity gains	Provision of spare parts Services
Supplier Collaboration			

Supplier Portal

To simplify and standardize communication processes between suppliers and MAHLE, we are rolling out the MAHLE supplier portal – a browser-based online solution that offers global, 24/7 accessibility, and is free of charge for suppliers.



The following functions are available depending on the level of implementation:

- Maintenance of supplier master data (e.g., contact persons)
- An automated request for quotation (RFQ) process that gives the supplier all information needed to quote properly
- Support of the advanced product quality planning (APQP) process or product part approval process (PPAP) during new product launches
- Feedback and complaints from suppliers on quality (8D reports)
- Access to supplier quality and logistics scorecards at any time

In order to prevent cross-media communication and accelerate quotation processes, it is mandatory for our suppliers to quote via the MAHLE supplier portal where available.

The MAHLE supplier portal consequently gives MAHLE the opportunity to create transparency worldwide and also creates new opportunities for our suppliers as a result.

Suppliers can find the login to the MAHLE supplier portal on www.mahle.com.

Supplier Management

Quality Management System The supplier agrees to maintain a certified, process-oriented quality management system (QMS). The minimum requirement for this system is the latest version of DIN EN ISO 9001 plus fulfill-

ment of "Minimum Automotive Quality Management System Requirements for Sub-Tier Suppliers" (MAQMSR) or equivalent, with the ultimate objective of becoming certified to IATF 16949.

Selection/ assessment classification New suppliers are evaluated by means of standardized selection processes to determine whether they are able to contribute to MAHLE's future success. Technical, economical, quality, and logistic aspects are assessed. After their initial registration – where available – via the MAHLE supplier portal new suppliers are asked to provide information about their company and conduct an initial quality self-assessment. Furthermore, suppliers shall upload or

submit their quality audit certificates to vouch for the eligibility of their provision of automotive parts. Afterwards, a physical audit is conducted at the supplier's site. Once the supplier has successfully passed the quality audit and accepted MAHLE's standard contracts, the supplier can be nominated for future business. This process is usually managed by the responsible buyer of the relevant material group.

Supplier Evaluation

The suppliers of the MAHLE Group play a significant role in achieving our goal of zero-defect deliveries. Pursuing this target, supplier evaluation is an important element used to measure our supplier's performance, impacting also future sourcing decisions. We aim for close collaboration with our suppliers, building on best-in-class delivery performance. The overall delivery performance is assessed against the four

criteria of logistics, quality, cost, and technology, influencing the supplier classification. Besides this yearly overall supplier evaluation, MAHLE conducts quality and logistics supplier evaluations on a monthly basis. If MAHLE's expectations regarding the aforementioned criteria are not fulfilled by the supplier, the supplier must implement measures to fulfill the MAHLE expectations.

Supplier Classification

MAHLE classifies its suppliers into nine categories according to purchasing, quality, logistics, and technological performance, as well as general supplier strategies.

The following supplier classifications are used:

- Quality
 - not satisfying
 - satisfying
- Purchasing
 - Preferred: strategic supplier –
 superior performance built on reliable partnership
 - Generic: regular supplier –
 series supplier with good performance level
 - Development: regular supplier supplying with good performance level and a development capability acc. to functional specifications

- Potential: new supplier –
 need to prove their capabilities
- On test: new suppliers who have passed or started the approval process
- Directed Buy: supplier set by a MAHLE customer
- On hold: regular supplier currently not eligible for contract awarding
- Run out: supplier with poor performance no future contract awarding
- Phase out: supplier with poor performance –
 short term de-source due to insufficient performance



- Regular cost improvement ideas and superior cost reduction performance are expected from preferred suppliers
- MAHLE preferred suppliers which should receive regularly RfQs
- Preferred suppliers are eligible to receive the right to get a last call
- Preferred suppliers are given priority, at equivalent performance, in the award of new projects or relocations
- Preferred suppliers are eligible to be part of early involvement in product development
- Very intense communication and close cooperation as a basis for mutual improvement
- 2
- MAHLE core supplier portfolio which should receive regularly RfQs
- Supplier can be awarded as they are in line with the material group strategy
- 3
- New suppliers in order to challenge the existing supply base, who should receive benchmark RfQs and be considered in RfQs for new projects and relocations
- Awards are possible after supplier quality release and approval of the material group responsible



- Suppliers in these categories must not receive RfQs and no awards. (Exception: RfQs and awards to Directed buy suppliers upon customer request)
- Run out and Phase out suppliers are identified as critical and are part of supplier reduction efforts



Supplier Development

Suppliers are eligible for two types of supplier development according to MAHLE's current need. Specialists from MAHLE with worldwide workshop experience provide technical and commercial expertise to facilitate supplier improvement in all areas. Suggestions to supplier self-improvement are always welcome at MAHLE.

Process value analysis (PVA) and value analysis/value engineering (VA/VE) activities focus on base-cost reduction and cost-improvement potential along the supplier's entire supply chain. Long-term partnerships are built around joint problem-solving and enhanced competitiveness.

The MAHLE Supplier Improvement Program (MSIP) is the second form of supplier development focused on quality issues that MAHLE offers. Process-oriented analysis by MAHLE specialists, combined with implementing supplier suggestions concerning parts design, aim to optimize the supplier's and MAHLE's overall product quality and production processes.



Logistics

Flexible and reliable delivery concepts have become critical for efficient production performance in all lines of business, but especially in the automotive industry. Suppliers must ensure availability of specific volumes of stock at predefined times and locations. MAHLE requires suppliers to accept innovative delivery concepts from their respective suppliers. Meeting the zero defect requirement and delivery deadlines, as well as taking responsibility from day one of production until the end of the product life cycle, should be self-evident.

MAHLE uses tools like EDI, WebEDI, ASNs, labeling, and Supplier Kanban to track deliveries in order to synchronize

processes and minimize inventory, and expects the same from suppliers. Globally synchronized cooperation and communication with suppliers is important to achieve our goals from an economic, production, quality, and ecological point of view. Alongside innovative delivery concepts MAHLE suppliers must be able to perform classic concepts like consignment stock, JIT/JIS, and Kanban.

Further detailed information regarding delivery standards can be reviewed in the Logistics Policy provided on the MAHLE website www.mahle.com.



Supplier Code of Conduct

As a global player, MAHLE is fully aware of its legal and social responsibility. To ensure compliance with legal requirements within the MAHLE Group, we have developed a global compliance structure.

MAHLE's approach to doing business reflects its continuous pursuit of excellence. Employees as well as interacting external parties are held to the same high standards compliant with prohibition of corruption and bribery, fair competition, social responsibility and principles of law. It is imperative to prevent false behavior and every employee is expected to uphold the company's public reputation. Compliance with national and international antitrust legislation as well as anti-corruption legislation is a fundamental principle of our business at all levels of the company. Moreover, all suppliers shall respect the laws in effect and any other applicable provisions. This includes, for example, following compliance issues:

Respect for internationally recognized human rights

Any form of forced or illegal underage labor, slavery or human trafficking is prohibited, not to be practiced and is not tolerated at businesses supplying MAHLE. Fair und healthy working conditions as well as adherence to principles of diversity, anti-harassment and freedom of association have to be ensured.

Antitrust law

MAHLE and all its suppliers will conduct their business in line with fair competition and in accordance with all applicable antitrust laws.

To clarify the specific compliance expectations towards suppliers, a Supplier Code of Conduct has been developed and published on the MAHLE website. All suppliers have to comply with this Supplier Code of Conduct.

MAHLE Supplier Requirements

General Requirements

Criteria	MAHLE requirements for suppliers	Implementation and verification
Capability to apply to automotive standards	 Familiarity with and use of distinct specifications and production methods relating to the automotive industry 	■ List of references
Supplier Code of Conduct	 Acceptance of MAHLE's Supplier Code of Conduct available on the MAHLE website 	Supplier Code of Conduct
Global presence	 Global availability to support MAHLE as a worldwide manufacturer Global market presence Capable of supplying all international MAHLE locations 	 International support as key account Global delivery capability Balanced best-cost country share
Project implementation	 Availability of appropriate resources/contact persons to meet MAHLE's expectations Establishment and implementation of a project management system 	Project organizationMilestone planningQuality gates
Development planning	 Definition of the development objectives, development planning, development testing and evaluation, development release 	 Development objectives Development plan Specifications Specification sheet Product data Testing and validation Functional Analysis
Manufacturing concept	 Design of a concept that ensures that the supplier can meet MAHLE's planned quality and quantity requirements during series production 	 Process flow chart Process layout Capacity planning for preseries and series production
Traceability	 Assurance of complete and comprehensive traceability of all products from the end user to your subcontractors 	 Batch documentation Batch separation Product and container identification Compliance with FIFO principle Shipping documents

Criteria	MAHLE requirements for suppliers	Implementation and verification
Production planning and control	 Translation of the MAHLE requirements into production orders, capacity planning, order control Provision of suitable and capable production tools to safeguard controlled production Provision of all necessary instructions Unless individual arrangements apply, the minimum requirement of MAHLE is that the released quantities can be changed as follows: Planned quantities can be modified by ±30% up to four weeks prior to the delivery date Planned quantities can be modified by ±20% up to three weeks prior to the delivery date Planned quantities can be modified by ±10% up to two weeks prior to the delivery date Planned quantities can be modified by ±5% up to one week prior to the delivery date Planned quantities are fixed the week before the delivery date Planned quantities are fixed the week before Planned quantities are fixed the week before	 Emergency management Capable manufacturing processes Further processing of the supply orders without systems breakdowns Application of PPS/ERP systems
Logistics	 Acceptance and implementation of innovative delivery concepts Correct and compliant handling, storage, and transportation of products Adherence to delivery date and quantity targets Ongoing inspection and realignment of logistics processes and their continuous improvement with the participation of subcontractors Compliance with MAHLE shipping and packaging instructions Adherence to the identification instructions Observation of the manufacturing dates and expiration dates Use of qualified transport services providers 	 Consignment stock JIT/JIS Kanban Adherence to storage and transportation instructions 100% compliance with delivery and quantity terms Application of FIFO principle Selection of packaging based on qualitative, economic, and ecological criteria Labeling according to the agreed EDI standard ASNs according to the MAHLE standard
Provision of spare parts	 Guarantee the provision of spare parts for the stipulated lifetime of the end products for which the products are to be used Minimum period: 15 years after the end of the series production of the products Granting MAHLE the option to place a concluding all-time order in good time before the expiry of the minimum period 	 Terms & Conditions Confirmation on project level

Criteria	MAHLE requirements for suppliers	Implementation and verification
Inspection certificates	 Guarantee of batch traceability Assurance of compliance with required material specifications and required delivery quality 	 Acceptance certificate according to DIN EN 10204 for commodi- ties and materials
Qualified employees	 Informed and qualified employees Prompt implementation of qualification activities on the basis of a systematically determined qualification need On-the-job training Promotion and determination of quality awareness 	 Qualification matrix Qualification verification Verification of introduction and training Layered audits Proxy regulations
Contingency planning	 Protection processes or emergency preparedness for installations, equipment, safety buffers, and EDP 100% guarantee of MAHLE supply 	 Contingency plan Hotline Contact persons Service and maintenance agreements Flow charts listing responsible parties
Communication and data exchange	 Close collaboration in the development phase Compatibility of data exchange Processing of native data and EDI/WebEDI Willingness to actively collaborate on innovative development projects Protection of the confidentially transmitted information 	 Resident engineer for joint development projects IT-supported exchange of information (e.g., remote data transmission / EDI) Processing of native CAD data among others, such as CATIA V4, CATIA V5, ProEngineer 2001 Processing of standard VDA formats (e.g., 4905, 4915 or EDIFACT, ANSI)
IT security	 Established IT security and data privacy concept Compliance with IT regulations and international IT standards 	 Proof of IT security and data privacy concept
Information Security Management System (ISMS)	 Effective implementation and maintenance of Information Security Management System (ISMS) Compliance with TISAX automotive standard (current valid version) 	 Proof of Information Security Management System (ISMS) model Valid TISAX Label for development suppliers

Purchasing-related Requirements

Criteria	MAHLE requirements for suppliers	Implementation and verification
Procurement and supplier management	 Systematic selection and evaluation of subcontractors Assignment of MAHLE requirements to subcontractors Implementation of qualification activities with subcontractors Procurement only from certified subcontractors Minimum requirement placed on subcontractors is a valid certificate according to DIN ISO 9001 plus fulfillment of Minimum Automotive Quality Management System Requirements for Sub-Tier Suppliers or equivalent 	 Subcontractor selection, development, optimization, and evaluation system Scheduling and procurement from released and certified subcontractors Valid certificates Advanced product quality planning (APQP) at subcontractors
Contractual partnership	 Acceptance of the Supply Agreements, Warranty Agreement, Supplier Code of Conduct, Tooling Agreements, Non-Disclosure Agreement, Quality Assurance Agreement, Special Logistics Agreement, Consignment Contract, GTCs of Purchase, and further relevant contracts Willingness to reduce the incoming inspection at MAHLE 	Conclusion of the contract(s)
Cost structures	 Transparency and disclosure of the cost structures and pricing throughout the entire process chain Determination of target prices and optimization of cost structures Detailed breakdown of the prices of parts and tool cost 	Transparent calculationTarget costing
Cost-reduction potentials	Implementation of cost reduction projectsUtilization of product potentialsSupplier cost reduction suggestion program	 Value engineering projects together with MAHLE and with subcontractors
Continuous improvement	 Continuous improvement process for cost optimization and annual productivity increases High competitiveness at a world market level with respect to price, quality, faithfulness to deadlines and flexibility 	CIP organizationCIP projectsSupplier suggestion programVA/VE projects
Payment terms	 Acceptance of standard MAHLE payment terms Acceptance of MAHLE's Conditions of Purchase 	 Agreement on automotive- specific payment terms and conditions
Handling of payments	All customary payment methodsWillingness to settle deliveries / services through credit notes	 Credit note method according to VDA

Criteria	MAHLE requirements for suppliers	Implementation and verification
Digital invoicing	 Where available, suppliers are obliged to submit their invoices digitally 	 Usage of relevant platforms (e.g. ePAID) Paper-based invoices may be rejected where digital solutions exist
E-business activities	Participation in auctions and online bidsQuote via MAHLE supplier portal where available	
Provisions and insurance	 Insurance coverage for damages caused by plant failures Property insurance for company capital goods Product liability and product recall insurance 	 Business and product liability insurance policy Recall cost insurance policy Backup plan for production disruptions

Quality-related Requirements

Criteria	MAHLE requirements for suppliers	Implementation and verification
Quality and environmental management system	 Effective implementation of a quality and environmental management system Valid certification according to DIN ISO 9001 (last valid version) plus fulfillment of Minimum Automotive Quality Management System Requirements for Sub-Tier Suppliers or equivalent Compliance with IATF 16949 automotive standards (last valid version) Certification according to IATF 16949 must be planned and implemented Compliance with DIN EN ISO 14001 or EMAS 	 Valid certificate based on DIN ISO 9001 (minimum) or IATF 16949 Implementation of DIN EN ISO 14001
Software related to automotive products and automotive products with embedded software	 Implementation and maintenance of a process for software quality assurance for the products of the supplier Automotive SPICE according to ISO/IEC min Level2 	 Documented software development capability self-assessment

Criteria	MAHLE requirements for suppliers	Implementation and verification
Failure-prevention methods	 Failure prevention before failure detection Obligation to follow the zero-defect strategy Product and performance responsibility throughout the entire process chain, from the development to the end customer 	 Risk analysis tools (FTA, FMEA, QFD, etc.) APQP Poka-yoke Design for Six Sigma
Change management	 Request MAHLE's approval of any change by the supplier (including your subcontractors) to the design, process, or materials, as well as other changes that affect the functionality and reliability of the products to ensure perfect quality The supplier has to inform MAHLE at least six months in advance and will require prior written approval from MAHLE For approved changes sample submission prior to series production approval, followed by a written approval according to the requirements of PPF/PPAP, unless otherwise agreed upon between the supplier and MAHLE Documentation of all changes to the product and all product-relevant changes to the process chain in a product life cycle 	 Timely written notice of planned changes MAHLE's written approval of changes Compliance with VDA Volume 2 (PPA) and AIAG (PPAP) Product and process life cycle Trigger matrix according to VDA Volume 2 Described change management process
Feasibility studies	 Technical and scientific know-how Definition of significant and critical characteristics Creation of specifications and product data Development testing — ability to produce prototypes Review of feasibility regarding function and production capability 	 Product data Tests Simulations Lab tests Prototypes Development validation
Advanced quality planning	 Ability to implement automotive standards Incorporation and application of failure prevention methods and processes aimed at preventive quality assurance 	 Advanced product and quality planning (APQP)
Risk analyses	 Estimation of quality risks Preventive use of systems FMEAs at product and process levels for the timely detection and prevention of defects Definition and evaluation of significant and critical features 	 Systems FMEA — product System FMEA — process Systems FMEA — logistics Significant and critical characteristics

Criteria	MAHLE requirements for suppliers	Implementation and verification
Statistical methods	 Determination of required statistical methods for all stages of product implementation and within the scope of product and process development 	 Validation test planning Simulations Capability studies Statistical process control (SPC) Measurement system analysis (MSA) Quality control charts
Inspection planning	 Ability to compile the inspection specifications based on automotive standards as well as performing measurement system analyses 	 Control plans for Prototypes, pre-series, series Inspection plans and instructions Capable measurement systems
Capability studies	 Determination and evaluation of short-term process and machine capability quality characteristics as well as long-term process capability characteristics of the manufacturing processes Adherence to the required capabilities for production and testing equipment 	 Minimum requirements for capability indices are generally the following: Cm, Cmk ≥ 1.67 Pp, Ppk ≥ 1.67 Compliance with MAHLE and customer-defined specifications is always required, even if higher than the minimum requirements
Product and production process approval	 Initial sample management according to automotive standards Data maintenance in the International Material Data System (IMDS) Production process approval Internal process approval and approval of series production/inspection equipment and tools Conducting production trials under mass production conditions for series production approval, which is carried out within the scope of the preseries, during which a defined quantity must be produced under mass production conditions 	 Internal tool acceptance test Results of the production trials Internal process approval Maintenance and repair instructions Production-ready tools and equipment Staff qualification Introduction / training at the workplace Work / inspection instructions Workplace / inspection station layout Execution according to the latest valid version of PPAP (AIAG) or PPF (VDA Volume 2) Process approval according to VDA 6.3 by MAHLE, including performance test (Run@Rate)
Requalification testing	 Planning and conducting of periodic requalification tests 	 Minimum requirement is a complete dimensional and functional inspection according to IATF16949 (requalifi- cation testing)

Criteria	MAHLE requirements for suppliers	Implementation and verification
In-process quality assurance steps	 Planning and implementation of product and process inspection and testing 	 In-process inspection and testing Statistical process control (SPC) Documentation of inspection and test results First-piece / last-piece inspection Reaction plan to control defective parts
Handling of defective parts	 Assurance that no defective parts are forwarded Identification and control systems Determination of failure root causes according to VDA Field Failure Analysis or CQI-14 (AIAG) 	 Reaction plan Containment actions Root-cause analyses Corrective actions 8D method
Inspection equipment management	 Assurance of capable inspection procedures Periodic calibration of used testing and measuring equipment Gauge monitoring 	 Inspection equipment monitoring system Calibration verification Accredited external service providers Measurement system analysis (MSA) Qualified inspection operators
Process Capability	 Regular process capability studies and evaluations Observation of significant and critical characteristics Adherence to required capabilities Reaction plans for out-of-spec processes 	 Minimum requirements for capability indices are generally the following: Cp, Cpk ≥ 1.33 Compliance with MAHLE and customer-defined specifications is always required, even if higher than the minimum requirements
Complaint management	 Systematic implementation of corrective action and preventive measures in a team approach Avoidance of recurring defects Application of problem-solving techniques 	 8D method Pareto analyses Root cause analyses Cause-and-effect diagram Read across Lessons learned
Document control	 Regulating the control and archiving of specification and verification documents (record) 	 Control matrix for documents and records Minimum 15-year retention Observation of VDA Volume 2

Problem-solving Path and Escalation Processes

Escalation level	Cause	Action
0	Product and service quality comply with the agreements and requirements	In case of complaints problem solving by 8D
1	Product and service quality do not comply with the agreements and requirements: Severe deviations and complaints Recurring complaints Adherence to quantities and due dates unsatisfactory Line stops Insufficient reaction to complaints	 Escalation meetings with supplier to clarify and define further action Initiation and implementation of measures on-site at supplier's facility (audit, logistics process analysis, risk assessment, etc.) Controlled Shipment Level 1 (CSL1) in case of recurring issues
2	Product and service quality do not comply with the agreements and requirements: Insufficient ability and/or willingness to solve the problem	 New Business on Hold (NBOH) Decision regarding the execution of MAHLE Supplier Improvement Program (MSIP) Controlled Shipment Level 2 (CSL2) in case of recurring issues
3	Product and service quality do not comply with the agreements and requirements: Ongoing insufficient ability and/or willingness to solve the problem	 New Business on Hold (NBOH) Decision regarding change of supplier Qualified or immediate supplier phase-out CSL2 ongoing to final delivery stop

Course of the escalation process

MAHLE's escalation process is broken down into three escalation levels, each of which basically follows the procedure outlined below:

- Analysis of escalation causes and problem
- Decision regarding measures to be implemented (e.g., 8D report, audit)
- Agreement on an action plan to eliminate the escalation causes
- Implementation of the action plan by the supplier
- Monitoring of the implementation process by MAHLE, followed by escalation to the next level or de-escalation, depending on outcome

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