

# Formel Q *konkret*

## *Brand-specific supplements*



## 0 General provisions

### *AUDI:*

(AUDI AG; AUDI HUNGARIA Zrt, Győr, Hungary; AUDI México S.A. de C.V., San José Chiapa, México; Audi Sport GmbH)

- Rules for file entry in IMDS for complex parts and ZSB.
- List of contact persons for "Conformity of Production" (CoP) of the Audi plants.
- Regulations of the Audi brand for the further loading of supplier-caused field, Okm and CKD complaints.
- Checklist Relocation of production sites.
- Software qs-STAT and guideline "Proof of capability of measuring systems", to be requested via company Q-DAS GmbH & Co. KG: Eisleber Str. 2, D-69469 Weinheim, Phone: 0049 6201 3941-0, Mail: [info.qdas.mi@hexagon.com](mailto:info.qdas.mi@hexagon.com), Internet: [www.q-das.com](http://www.q-das.com)
- Establishment of the IT connections to be ensured.
- Supplier file formats AUDI analysis tool.

### *Porsche:*

(Dr. Ing. h.c. F. Porsche AG)

- VW 99000 does not apply.
- General specifications for external Porsche control devices (CT).
- Formel Q Neuteile Integral der Dr. Ing. h.c. F. Porsche AG. Instead of the relevant provisions in Chapter 3 of Formula Q, the provisions of Formel Q Neuteile Integral of Dr. Ing. h.c. F. Porsche AG shall apply, which shall take precedence in this respect.
- Guidelines for recourse processing for suppliers.
- Quality guideline for body shell components.

### *ŠKODA AUTO:*

(ŠKODA AUTO a.s.)

- TLD-BZD requirements.
- Framework conditions for the measurement and the laboratory at SkodaAuto .
- Skoda Project Analysis (PAN).
- Price list of services and regressions at SkodaAuto .

### *Volkswagen (VW) Group After Sales:*

(VOLKSWAGEN AG, Group After Sales Division)

- Current documents and relevant documents are on the ONE. Group Business Platform (KBP) under [www.vwgroupsupply.com](http://www.vwgroupsupply.com), under: >Information> Divisions>After Sales >.

### *Bentley:*

(Bentley Motors Ltd.)

- All further documents can be found on the ONE. KBP Platform: Information>Divisions>Quality Assurance>Brand Specific Information>Bentley Motors.
- Guidelines for recovering costs associated with supplier-caused complaints.
- Metrology Requirements.
- CQS, CLP, CWP Laboratory standards.

### *MAN Truck & BUS / VW T&B / International Motors Inc.:*

(TRATON Group; Scania CV AB; MAN Truck & Bus; VW Truck & Bus; International Motors LLC.; RIO)

- CVS10 – TRATON Customer Requirements - Quality assurance agreement for purchased parts & Organizations.

### *Volkswagen (VW) Passenger Cars:*

(VOLKSWAGEN AG; VW Sachsen GmbH; VW Slovakia a.s.; VW Poznan Sp. z.o.o.; VW do Brasil Ind. de Veiculos Automotores Ltda.; VW Argentina S.A.; VW Group of America, LLC; VW de México, S.A. de C.V.; VW Group Africa (Pty) Ltd.; VW Navarra, S.A.; VW Autoeuropa, Lda.; VW Osnabrück GmbH; w/o joint venture companies)

- Guideline FM -Data exchange for suppliers.
- TQS Standard Functional Dimension Catalog ZP7.

### *Volkswagen (VW) Passenger Cars, VW Commercial Vehicles, VW Components*

(VOLKSWAGEN AG; VW Sachsen GmbH; VW Slovakia a.s.; VW Poznan Sp. z.o.o.; VW Motor Polska Sp. z.o.o.; VW do Brasil Ind. de Veiculos Automotores Ltda.; VW Argentina S.A.; VW Group of America, LLC; VW de México, S.A. de C.V.; VW Group Africa (Pty) Ltd.; VW Navarra, S.A.; VW Autoeuropa, Lda.; VW Osnabrück GmbH; w/o joint venture companies)

- Regulation for the further loading of supplier-caused field and 0km complaints.

**SEAT:**

(SEAT S.A., Martorell, Spain)

- ANNEX-SPECIFICATIONS DOCUMENT: MATERIALS.

## 1. Request, offer preparation and general requirements

*Volkswagen (VW) PKW , Audi, Porsche:*

The customer reserves the right to carry out the standardized "Supply Chain Capability Assessment" (SCCA) with the supplier. If the minimum requirements are not met, the supplier undertakes to implement an improvement program including a timetable in coordination with Volkswagen to achieve these minimum requirements.

### 1.2 Enquiry documents

*Volkswagen (VW) Passenger cars:*

For customers who work with the functional dimension catalogue (FuMaKa), the following specification applies: The functional dimension catalogue is used to define vehicle-specific Q requirements for defined center of gravity parts, whose dimensional tolerances are of paramount importance for the function, as well as for the joint and radius image of the entire vehicle. For these center of gravity parts, the customer specifies test characteristic points (PMP) and functional dimensions (FM), which must be regularly checked by the supplier for compliance with the geometric specifications. In order to be able to monitor the series production process, the measurements of the site quality assurance must be transmitted digitally, in a suitable format (e.B. via the partner company network (PFN)). The relevant documents "Guideline FM Data Exchange for Suppliers" and the "Standard Functional Measurement Catalogue Metering Points 5 and 7 (ZP5/7)" are located on the ONE. KBP under "Information\Business Units\Quality Assurance\Technical Requirements".

#### 1.2.2 Test Equipment and Gauges

*MAN Truck & BUS / Scania / VW T&B / International Motors LLC:*

In coordination with the customer, the proof can also be carried out according to AIAG Measurement Systems Analysis.

#### 1.4.1 Responsibility in the supply chain

*Volkswagen (VW) PKW , Audi, Porsche:*

Ensuring the semiconductor supply chain by implementing semiconductor management.

## 2. Quality criteria for procurement

*Bentley:*

The relevant QTR process documents and information are sent by procurement and quality to the responsible contact persons at the supplier. The Bentley QTR Coordinator is the primary

point of contact for all QTR related requests. Correspondence and communication takes place in English.

### 3. Cooperation with suppliers during the product emergence process

#### 3.3 Production process and product release

*MAN Truck & BUS / Scania / VW C&O:*

ePPAP is used as a system for documenting the production process and product release.

*Porsche:*

In contrast to Chapter 3.3 of Formel Q konkret, the Formel Q New Parts Integral of Dr. Ing. h.c. F. Porsche AG applies.

*ŠKODA AUTO:*

#### **Product Capability Assessment**

In consultation with the supplier, the Product Capability Assessment can be conducted in the form of online meetings.

Individual activities, corrective actions and other activities related to the new projects must be proven by objective evidence (video, photo, online management).

#### **Product audit**

The supplier must subject at least 5 pieces to the product audit. The destructive test must be carried out on at least 1 piece. The visual inspection, functional tests, dimensional tests, etc. are carried out on all 5 pieces, unless otherwise requested by the customer.

*Bentley:*

Supplier undertakes to participate in the RGA discussions at Bentley's site.

#### 3.4 Software

*ŠKODA AUTO:*

Use of the „Form for PPA Release for SW related systems“.

### 4. Quality measures during series production

#### 4.4 Problem identification and management

*Audi, ŠKODA AUTO:*

The following limit values apply to the continuous review and proof of process capability for defined important characteristics:

- Preliminary Process Performance  $Ppk \geq 1.67$
- Long-term process capability  $Cpk \geq 1.33$  at start-up PVS
- with continuous improvement in the series:  $Cpk \geq 1.67$

If the supplier has a 100% control for the defined product/process characteristics of the scope of delivery according to Ch. 4.1, if no other agreement has been made with the customer, half the tolerance range shall be deemed to be the basis for the i.O. evaluation.

#### 4.9 Handling of liability for defects and special cases

##### *Audi:*

Current ppm actual values for 0-km can be found in the KPM system and current complaints for the field of the purchased parts writing list (KTL) distributed monthly to the suppliers by the commercial recourse.