

# SQPS-934

## Veoneer Supplier Manual (VSM) –

1. S-APQP

2. Contract Review Process & Template

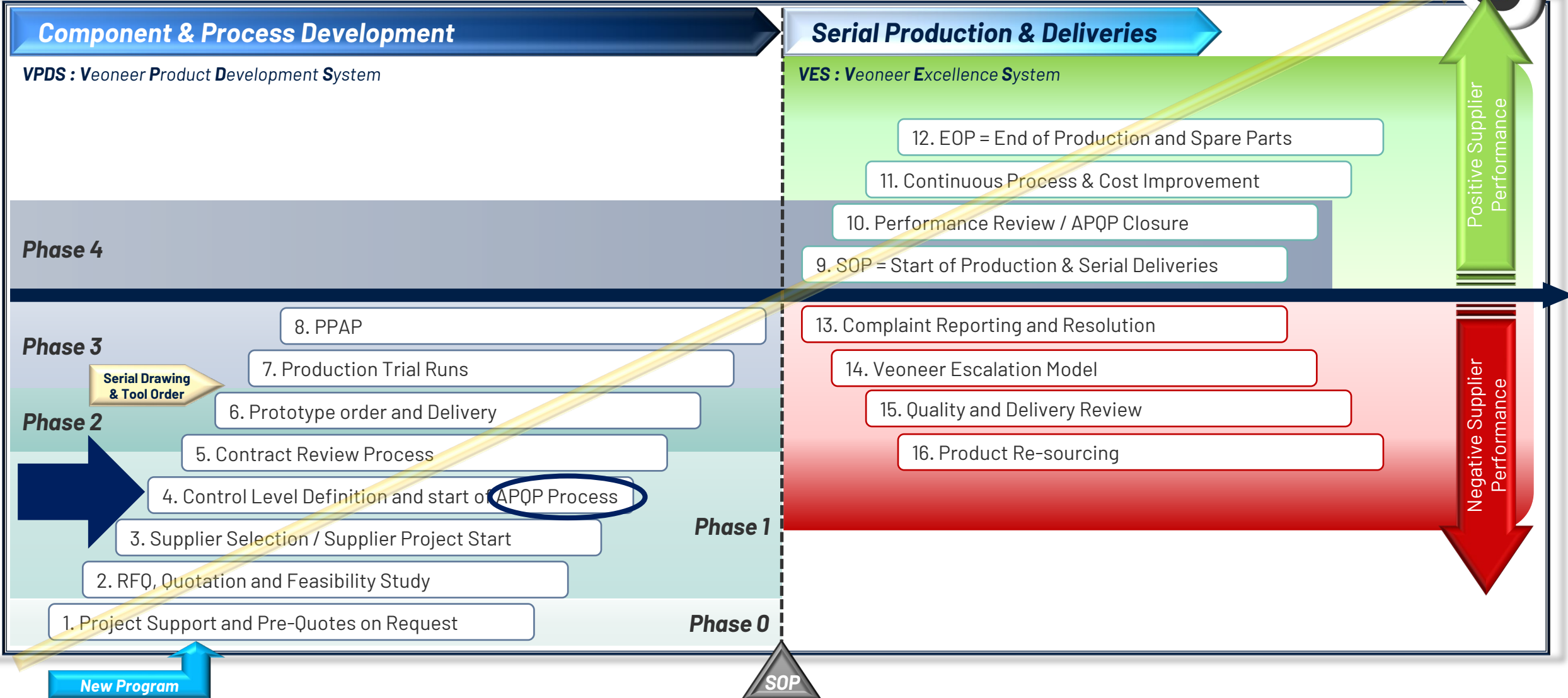
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15-FEB-2022



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# 1. S-APQP (Process and IT tool)

- Zero Defect
- 100% On Time Parts
- Best Price
- More Business



# 1. SQP: Combined S-APQP & PPAP process

**APQP (Advanced Product Quality Planning) is a structured method of:**

- Defining and establishing the steps and requirements necessary to ensure that both product and process satisfy the Veoneer requirements.
- Ensuring that all activities leading to a seamless supplier product launch will be completed on time.
- Ensuring a "First Time Quality" and "On Time" PPAP.
- Defining a Quality Road Map for successful launch in Veoneer.

# 1. SQP: Combined S-APQP & PPAP process

- Veoneer SQP list all activities and tasks to be planned and completed by the supplier ; controlled and managed by Veoneer responsible persons from various functions.

Item #	PPAP /APQP	Deliverable Name	CDP #	CDP Phase	TG Phase	CDP Project Folder	CDP Responsible	SQP Responsible	SQP responsible name	Template Mandatory	Template	KCD			Applicable (Y/N)	SREA Use Only Updated document required Mark with 'X'	Status - include date for each update (2013-12-25: xxx)	Due Date
												0	1	2				
1	APQP	Project Team	8	0	0	Team Roster	Program Manager	Product Engineering Leader (PEL)	Name 2		TEMPLATE - Component Team Roster.xls	x	x					
2	PPAP	Veoneer CRS (Component Requirements Specification)	19	1.2	0.1	Component Requirements Specification (CRS)	Program Manager	Product Engineering Leader (PEL)	Name 2	X	Latest in Sharepoint	x	x					
3	PPAP	Component datasheet	13	1.2	0.1	Datasheet	Technical Lead	Design Engineer	Name 3			x	x	x				
4	PPAP	Component Package Drawing					Technical Lead	Design Engineer	Name 3			x	x	x				
5	PPAP	Lot Traceability Plan					SQE	Supplier Quality	Name 5			x	x	x				
6	PPAP	Material Handling and Packaging Instructions					SQE	Supplier Quality	Name 5			x	x	x				
7	APQP	Supplier Timing Plan	7	0	0	Workplan	Program Manager	Product Engineering Leader (PEL)	Name 2			x	x					
8	PPAP	Feasibility Study and Action Plan completed	20	1.2	0.1	Team Feasibility Commitment	Buyer	Buyer	Name 1	X	Latest in VSM	x	x					
9	APQP	Substance review					SQE	Supplier Quality	Name 5			x	x	x				
10	APQP	Contract Review					Buyer	Buyer	Name 1	X	Latest in VSM	x	x	x				
11	PPAP	Process flowchart					SQE	Supplier Quality	Name 5			x	x					
12	PPAP	Production Test Flow					SQE	Supplier Quality	Name 5			x	x					
13	APQP	Parameter based FMEA	16	1.2	0	SC/CC List / Parameter-based FMEA	Technical Lead	Design Engineer	Name 3		TEMPLATE - Component Parameter-Based FMEA.xls		x					
14	PPAP	Pin FMEA and defined rules	12	1	0	Pin FMEA	Technical Lead	Design Engineer	Name 3		TEMPLATE - Component Pin FMEA.xls	x	x					
15	PPAP	Design FMEA	21	2	1	Block DFMEA	Technical Lead	Design Engineer	Name 3		TEMPLATE - Component Block FMEA.xls	x	x					
16	PPAP	Process FMEA					SQE	Supplier Quality	Name 5			x	x					
17	APQP	Qual Plan	11	0.1	0	Qual plan	Component Engineer	Component Engineer	Name 4	X	Latest in Sharepoint	x	x					
18	PPAP	Qualified Laboratory Documentation					SQE	Supplier Quality	Name 5			x	x					
19	PPAP	Special Characteristics					SQE	Supplier Quality	Name 5			x	x	x				
20	APQP	VS2 Process Audit					SQE	Supplier Quality	Name 5			x	x					
21	APQP	First-Production-Trial-Run and Corrective Actions					SQE	Supplier Quality	Name 5			x	x					
22	PPAP	Reliability / Quality prediction					SQE	Supplier Quality	Name 5			x	x					
23	APQP	PPAP Production Trial Run					SQE	Supplier Quality	Name 5			x	x					
24	PPAP	Control Plan					SQE	Supplier Quality	Name 5			x	x					

Component Deliverable list (Example)

# 1. SQP: Supplier Quality Project

- Veoneer decided to merge both S-APQP and PPAP in the same process and tool because:
  - S-APQP is contributing to reach target of First Time Quality and On Time PPAP requirements,
  - PPAP requires documentation and submission of information that are identified as a deliverable in the SQP process.
- The SQP (S-APQP & PPAP) template describes tasks and deliverables to be produced to meet:
  - S-APQP required deliverables.
  - PPAP required deliverables.

# 1. SQP application

- To ensure that activities are managed in a standard way in between Veoneer sites and suppliers, an IT application has been developed on Veoneer PLM platform called Supplier Quality Project. (SQP).
- Veoneer Supplier Quality Engineers are responsible for setting in PLM the SQP process in line with Control Level Definition and PPAP level requirements.
- Supplier shall access and manage their SQP project through Veoneer Partner Portal (VPP).
- Supplier is responsible for planning, doing, documenting and submitting the deliverables using the SQP IT application in VPP.

# 1. SQP: IT application

- For detailed practice of SQP IT application in VPP use training kit stored in VSM:
  - **Reference : VSM Training - Supplier Quality Project (S-APQP & PPAP) in SQP-IT application in VPP**
- For efficient use of the application and to avoid unnecessary documentation :
  - Duplicated task from variant related project will be aligned with the Veoneer SQ.
  - Veoneer SQ and project team on CLD and PPAP level to be considered on the project.
  - Make SQP project configured by taking into account these items.

# 1. SQP: IT application

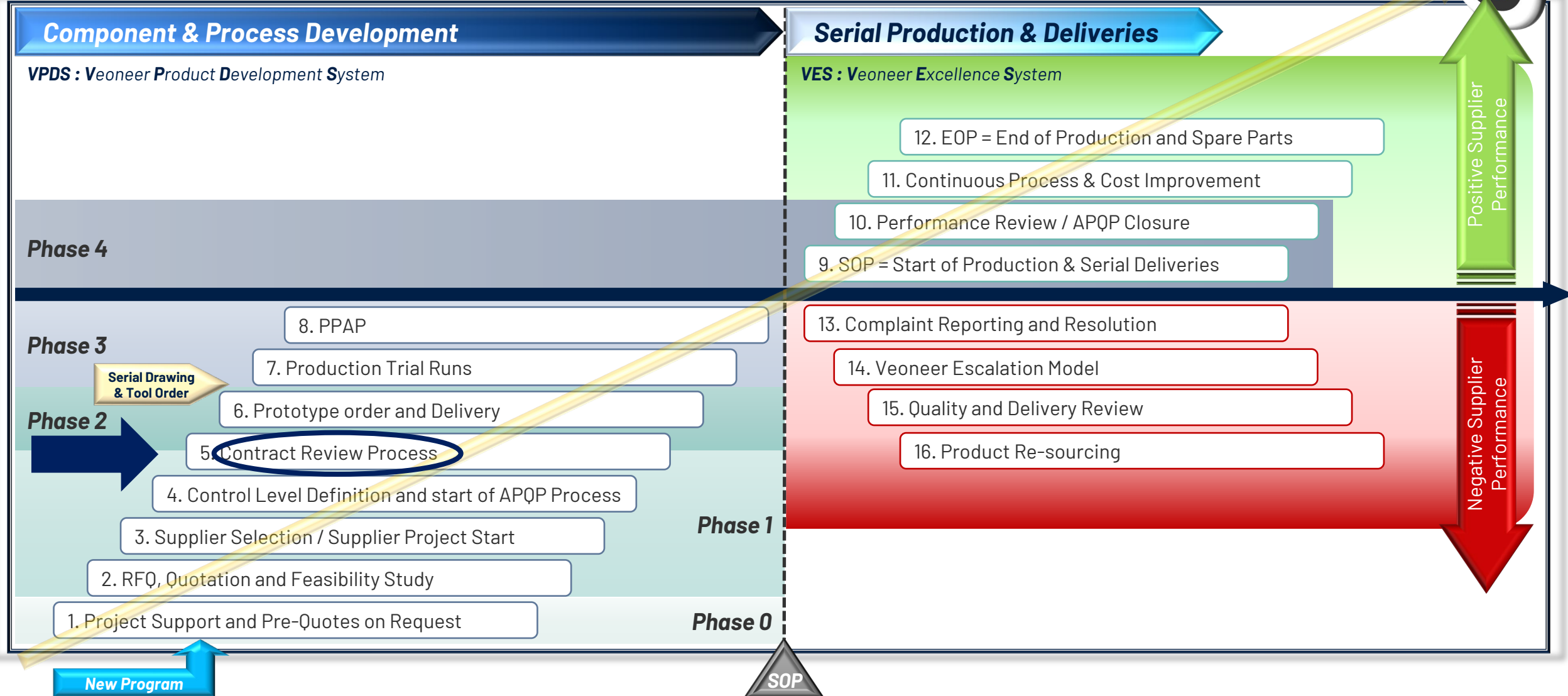
- **Potential consequences of non-observance:**

- Veoneer and supplier commitment not being met
- Missed pre-production deliveries
- Incorrect tracking to orders or engineering level
- PPAP timing and/or Quality not met
- High scrap rate
- Premium freights
- ...



# 1. Contract Review

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## 2. Contract Review

- **Purpose:**

- The contract review process is used as a tool for both Veoneer and the Supplier to ensure that the manufacturing process and the product design have been reviewed and established.
- The Contract Review process starts after supplier selection and should be finalized before TG 2 and Tool Order. It should be restarted for product design changes.
- The contract review clearly communicates Veoneer's project milestones,(i.e.: PPAP, Run@Rate, etc.) establishing an agreement between both Veoneer and the chosen Supplier.
- Contract review is also used to finalize commercial negotiation.

# The Contract Review-Template:



## Contract Review Template

### Front page

Part no.:

Drawing no.:

Drawing revision:

Part description:

Program / platform:

Veoneer development site:

Supplier:

Revision / last update:


**Purpose:** The Contract Review process must be finalized prior to the P.O. being issued to the supplier. Through this review process, we plan to review commercial items. Preliminary program timing and key milestone dates from TFC will be reviewed.

Veoneer to bring
Current drawings, samples and specifications

Supplier to bring
Tooling & gauge list
Recommendations on cost & design
Supplier project plan
Process flow chart
Supplier APQP
Feasibility study

**After completing the contract review meeting, please list participants below:**

Veoneer			Supplier	
Name	Signature	Function	Name	Signature
		Purchase		
		Quality		
		Engineering		
		Sales		
		Logistics		
		Project		
		Mat.		
		Tool maker		



## Contract Review Template - General

Issue	Select	Action item / comment	Responsible	Due date
<b>1.0 Project</b>				
1.1 Have all TFC concerns been reviewed and closed?				
1.2 Tool / purchase order date:				
1.3 Serial drawing available?				
1.4 Who has responsibility for drawing and 3D model?				
1.5 3D model format:				
1.6 Delivery date of first off tool parts (without adjustments): (As specified in TFC)				
1.7 Delivery date of functional parts (see comments):				
1.8 How many parts? Discrete PO Number				
1.9 PPAP production trial run date:				
1.10 Agreed PPAP submission date:				
1.11 Supplier Run @ Rate date:				
1.12 Start of production date - Supplier:				
1.13 Start of production date - Veoneer:				
1.14 End of production date:				
1.15 Supplier project time plan available?				
1.16 Ramp up information available?				
1.17 Other:				
<b>2.0 Tooling</b>				
2.1 List all unique tools, equipment and gauges required for the production of the listed part number(s) incl. respective lead times (attach list to this review):				
2.2 Tool manufacturer:				
2.3 Tool / asset ownership:				
2.4 Tool tag reference(s):				
2.5 Tool asset form submission date:				
2.6 Other:				
<b>3.0 Quality</b>				
3.1 SOP started ?				
3.2 Launch / interim inspection plan requirements				

Front page
General details
+

## 2. Contract Review

### **Potential consequences of non-observance:**

- Additional costs due to missing requirements ...
  - capacity issues / concerns
  - packaging issues
  - tool order dates
  - etc. ...

# Thank You!

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