

AUTOMOTIVE
QUALITY MANAGEMENT
SYSTEM DOCUMENT

MAQMSR

Second Edition

September, 2017

**Minimum Automotive Quality Management System Requirements for
Sub-Tier Suppliers**

Sections of IATF 16949 selected for supplier QMS development



**International
Automotive
Task Force**

IATF copyright notice

This Automotive Quality Management System Document, known as MAQMSR, is copyright protected by the members of the International Automotive Task Force (IATF).

Permission is granted for organizations certified to ISO/TS 16949:2009 or IATF 16949:2016 to reproduce this document in its entirety for distribution to their suppliers for the expressed purpose of aiding development of their quality management system in accordance with ISO/TS 16949:2009 Section 7.4.1.2 or IATF 16949:2016 Section 8.4.2.3.

Otherwise, except as permitted under the applicable laws of the user's country, neither this Automotive Quality Management System Document nor any extract from it may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, photocopying, recording or otherwise, without prior written permission being secured from the IATF.

Reproduction may be subject to royalty payments or a licensing agreement and violators are subject to legal prosecution.

Requests for permission to reproduce and/or translate any part of this Automotive QMS Document should be addressed to one of the following national automotive trade associations below:

Associazione Nazionale Filiera Industrie Automobilistiche (ANFIA / Italy)

Automotive Industry Action Group (AIAG / USA)

Fédération des Industries des Équipements pour Véhicules (FIEV / France)

Society of Motor Manufacturers and Traders Ltd. (SMMT / UK)

Verband der Automobilindustrie e.V. (VDA / Germany)

TABLES OF AUTOMOTIVE QMS REQUIREMENTS

1 CONTROL PLANS.....	2
2 PROCESS APPROACH	2
3 PERFORMANCE	2
4 INTERNAL AUDITING	3
5 CONTROL OF NON-CONFORMING PRODUCT	3
6 PART APPROVAL	3
7 MANAGEMENT RESPONSIBILITY	4
8 RISK MANAGEMENT	4
9 SAFETY.....	4
ANNEXES	4

TABLE 1 - CONTROL PLANS	
Automotive QMS Requirement	Applicable IATF 16949:2016 Section(s)
1.1 Control plan	8.5.1.1 Control plan
1.2 Work instructions	8.5.1.2 Standardized work – operator instructions and visual standards
1.3 Verification of job set-ups	8.5.1.3 Verification of job set-ups
1.4 Preventive maintenance	8.5.1.5 Total productive maintenance
1.5 Identification and Traceability	8.5.2 Identification and traceability
	8.5.2.1 Identification and traceability — supplemental
1.6 Verification after shutdown*	8.5.1.4 Verification after shutdown*
1.7 Temporary change of process controls*	8.5.6.1.1 Temporary change of process controls*

TABLE 2 - PROCESS APPROACH	
Automotive QMS Requirement	Applicable Criteria
2.1 Process application	The organization shall define its product realization system. Each process and sub-process shall be defined. Each defined process shall be implemented and controlled including the interactions and linkages between processes. The processes shall be monitored for effectiveness. Note – Suppliers may refer to ISO 9001:2015 Section 0.3 for further guidance on the process approach.

TABLE 3 - PERFORMANCE	
Automotive QMS Requirement	Applicable IATF 16949:2016 Section(s)
3.1 Customer satisfaction	9.1.2.1 Customer satisfaction – supplemental
3.2 Incoming product conformity to requirements	8.6.4 Verification and acceptance of conformity of externally provided products and services
3.3 Supplier monitoring	8.4.2.4 Supplier monitoring
3.4 Problem solving and root cause analysis	10.2.3 Problem solving
	10.2.4 Error-proofing*
	10.2.5 Warranty management systems*
	10.2.6 Customer complaints and field failure test analysis*

*Requirement is new for IATF 16949

TABLE 4 – INTERNAL AUDITING	
Automotive QMS Requirement	Applicable IATF 16949:2016 Section(s)
4.1 Quality management system audit	9.2.2.2 Quality management system audit – except: organization shall audit to verify compliance with MAQMSR, 2 nd Ed.
4.2 Manufacturing process audit	9.2.2.3 Manufacturing process audit
4.3 Product audit	9.2.2.4 Product audit
4.4 Internal audit plans	9.2.2.1 Internal audit programme
4.5 Internal auditor qualification	7.2.3 Internal auditor competency, except: • requirement for documented process may be waived if audits are conducted under the guidance of a qualified customer second-party auditor • scope of auditor competency limited to ISO 9001:2015 and MAQMSR

TABLE 5 - CONTROL OF NON-CONFORMING PRODUCT	
Automotive QMS Requirement	Applicable IATF 16949:2016 Section(s)
5.1 Control of nonconforming product	8.7.1.2 Control of nonconforming product – customer specified process*
	8.7.1.3 Control of suspect product
5.2 Control of reworked product	8.7.1.4 Control of reworked product
	8.7.1.5 Control of repaired product*
5.3 Customer information	8.7.1.6 Customer notification
5.4 Customer waiver	8.7.1.1 Customer authorization for concession

TABLE 6 – PART APPROVAL	
Automotive QMS Requirement	Applicable IATF 16949:2016 Section(s)
6.1 Product approval process	8.3.4.4 Product approval process
6.2 Engineering specifications	7.5.3.2.2 Engineering specifications
	8.4.2.2 Statutory and regulatory requirements*
	8.4.2.3.1 Automotive product-related software or automotive products with embedded software*
6.3 Monitoring and measurement of manufacturing processes	9.1.1.1 Monitoring and measurement of manufacturing processes
6.4 Measurement system analysis	7.1.5.1.1 Measurement system analysis
6.5 Calibration/verification records	7.1.5.2.1 Calibration/verification records
6.6 Change control and change control notification	8.5.6.1 Control of changes - supplemental

*Requirement is new for IATF 16949

TABLE 7 – MANAGEMENT RESPONSIBILITY	
Automotive QMS Requirement	Applicable IATF 16949:2016 Section(s)
7.1 Process monitoring	5.1.1.2 Process effectiveness and efficiency
7.2 Quality objectives	6.2.1 and 6.2.2 (ISO 9001:2015)
	6.2.2.1 Quality objectives and planning to achieve them – supplemental
7.3 Responsibility for quality	5.3.2 Responsibility and authority for product requirements and corrective actions
7.4 Customer representative	5.3.1 Organizational roles, responsibilities, and authorities – supplemental
7.5 Quality management system performance	9.3.1.1 Management review – supplemental
7.6 Management review inputs*	9.3.2.1 Management review inputs – supplemental
7.7 Management review outputs*	9.3.3.1 Management review outputs – supplemental
7.8 Corporate responsibility*	5.1.1.1 Corporate responsibility*

TABLE 8 – RISK MANAGEMENT	
Automotive QMS Requirement	Applicable IATF 16949:2016 Section(s)
8.1 Risk Management*	6.1.2.1 Risk analysis*
	6.1.2.2 Preventative action*
8.2 Contingency plans	6.1.2.3 Contingency plans

TABLE 9 – SAFETY	
Automotive QMS Requirement	Applicable IATF 16949:2016 Section(s)
Product Safety*	4.4.1.2 Product safety*

ANNEXES	
Automotive QMS Requirement	Applicable IATF 16949:2016 Section(s)
(normative)	Annex A: Control Plan
(informative)*	Annex B: Bibliography – supplemental automotive*

*Requirement is new for IATF 16949