

AUTOMOTIVE  
QUALITY MANAGEMENT  
SYSTEM DOCUMENT

**MAQMSR**

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

Sections of IATF 16949 selected for supplier QMS development



**International  
Automotive  
Task Force**

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| <b>TABLE 1 - CONTROL PLANS</b>            |  |
|---|--|
| <b>Automotive QMS Requirement</b>         | <b>Applicable IATF 16949:2016 Section(s)</b>                           |
| 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*                        |

| <b>TABLE 2 - PROCESS APPROACH</b> |  |
|-----------------------------------|--|
| <b>Automotive QMS Requirement</b> | <b>Applicable Criteria</b>   |
| 2.1 Process application           | <p>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.</p> <p>Note – Suppliers may refer to ISO 9001:2015 Section 0.3 for further guidance on the process approach.</p> |

| <b>TABLE 3 - PERFORMANCE</b>                    |  |
|---|--|
| <b>Automotive QMS Requirement</b>               | <b>Applicable IATF 16949:2016 Section(s)</b>   |
| 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

| <b>TABLE 4 – INTERNAL AUDITING</b>  |  |
|-------------------------------------|--|
| <b>Automotive QMS Requirement</b>   | <b>Applicable IATF 16949:2016 Section(s)</b>   |
| 4.1 Quality management system audit | 9.2.2.2 Quality management system audit – except:<br><br>organization shall audit to verify compliance with MAQMSR, 2 <sup>nd</sup> 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: <ul style="list-style-type: none"> <li>• requirement for documented process may be waived if audits are conducted under the guidance of a qualified customer second-party auditor</li> <li>• scope of auditor competency limited to ISO 9001:2015 and MAQMSR</li> </ul> |

| <b>TABLE 5 - CONTROL OF NON-CONFORMING PRODUCT</b> |  |
|--|--|
| <b>Automotive QMS Requirement</b>                  | <b>Applicable IATF 16949:2016 Section(s)</b>                           |
| 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                          |

| <b>TABLE 6 – PART APPROVAL</b>                            |  |
|---|--|
| <b>Automotive QMS Requirement</b>                         | <b>Applicable IATF 16949:2016 Section(s)</b>   |
| 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

| <b>TABLE 7 – MANAGEMENT RESPONSIBILITY</b> |  |
|--|--|
| <b>Automotive QMS Requirement</b>          | <b>Applicable IATF 16949:2016 Section(s)</b>                                       |
| 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*  |

| <b>TABLE 8 – RISK MANAGEMENT</b>  |  |
|-----------------------------------|--|
| <b>Automotive QMS Requirement</b> | <b>Applicable IATF 16949:2016 Section(s)</b> |
| 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                    |

| <b>TABLE 9 – SAFETY</b>           |  |
|-----------------------------------|--|
| <b>Automotive QMS Requirement</b> | <b>Applicable IATF 16949:2016 Section(s)</b> |
| Product Safety*                   | 4.4.1.2 Product safety*                      |

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

\*Requirement is new for IATF 16949