

	RDA – Quality Assurance Conditions (QSB Codes) – For Suppliers	WI No.	QAL-KD-003
		Version	2.0
		Approved by:	Dhana Chandrasekaran
		Issued:	30/10/2021

QUALITY ASSURANCE CONDITONS - QSB

QSB Code	Description
002	Delivery of Parts: Delivery of parts only accepted with up-to-date Rheinmetall approval.
088	Terms of delivery for products with limited shelf life: <u>Minimum Shelf life of the goods less than 12 months:</u> The goods must be delivered no later than 4 weeks after the date of production. The date of manufacture on the part and/or packaging must be affixed in an unencrypted and uncoded manner and clearly identifiable. <u>Minimum Shelf life of the goods equal to 12 months:</u> A remaining shelf life of the product of at least 9 months from delivery must be guaranteed by the supplier. The date of manufacture on the part and/or packaging must be affixed in an unencrypted and uncoded manner and clearly identifiable. <u>Minimum shelf life of the goods of more than 12 months:</u> A remaining shelf life of the product of at least 12 months or $\frac{3}{4}$ of the entire shelf life from delivery must be guaranteed by the supplier. The date of manufacture on the part and/or packaging must be affixed in an unencrypted and uncoded manner and clearly identifiable
089	Date of Manufacture – Part not exceeding 6 months: The date of manufacture on the part and/or packaging must be affixed in an unencrypted and uncoded manner and clearly identifiable. The age must not exceed 6 months on delivery.
090	Date of Manufacture – Hose not exceeding 6 months: The date of manufacture on the hose line must affixed in an unencrypted and uncoded manner and clearly identifiable. The age must not exceed 6 months on delivery.
091	Date of Manufacture - Part not exceeding 12 months: The date of manufacture on the part and/or packaging must be affixed in an unencrypted and uncoded manner and clearly identifiable. The age must not exceed 12 months on delivery.
111	Welding certification according to DIN 2303 Q1 BK1: The supplier bindingly confirms with the tendering or with the order confirmation that he has the relevant welding certifications according to DIN 2303 as well as EN ISO 3834 required in the drawings. At the time of production a qualified welding procedure test must be available that is representative of the required production situation (basic material, filler material, component geometry and thickness, type of weld, welding position etc.). Questions must be directed via purchasing to the special welding engineer.
112	Welding certification according to DIN 2303 Q1 BK2: The supplier bindingly confirms with the tendering or with the order confirmation that he has the relevant welding certifications according to DIN 2303 as well as EN ISO 3834 required in the drawings. At the time of production a qualified welding procedure test must be available that is representative of the required production situation (basic material, filler material, component geometry and thickness, type of weld, welding position etc.). Questions must be directed via purchasing to the special welding engineer.

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113	<p>Welding certification according to DIN 2303 Q1 BK3:</p> <p>The supplier bindingly confirms with the tendering or with the order confirmation that he has the relevant welding certifications according to DIN 2303 as well as EN ISO 3834 required in the drawings. At the time of production a qualified welding procedure test must be available that is representative of the required production situation (basic material, filler material, component geometry and thickness, type of weld, welding position etc.). Questions must be directed via purchasing to the special welding engineer.</p>
121	<p>Welding certification according to DIN 2303 Q2 BK1:</p> <p>The supplier bindingly confirms with the tendering or with the order confirmation that he has the relevant welding certifications according to DIN 2303 as well as EN ISO 3834 required in the drawings. At the time of production a qualified welding procedure test must be available that is representative of the required production situation (basic material, filler material, component geometry and thickness, type of weld, welding position etc.). Questions must be directed via purchasing to the special welding engineer.</p>
122	<p>Welding certification according to DIN 2303 Q2 BK2:</p> <p>The supplier bindingly confirms with the tendering or with the order confirmation that he has the relevant welding certifications according to DIN 2303 as well as EN ISO 3834 required in the drawings. At the time of production a qualified welding procedure test must be available that is representative of the required production situation (basic material, filler material, component geometry and thickness, type of weld, welding position etc.). Questions must be directed via purchasing to the special welding engineer.</p>
123	<p>Welding certification according to DIN 2303 Q2 BK3:</p> <p>The supplier bindingly confirms with the tendering or with the order confirmation that he has the relevant welding certifications according to DIN 2303 as well as EN ISO 3834 required in the drawings. At the time of production a qualified welding procedure test must be available that is representative of the required production situation (basic material, filler material, component geometry and thickness, type of weld, welding position etc.). Questions must be directed via purchasing to the special welding engineer.</p>
131	<p>Welding certification according to DIN 2303 Q3 BK1:</p> <p>The supplier bindingly confirms with the tendering or with the order confirmation that he has the relevant welding certifications according to DIN 2303 as well as EN ISO 3834 required in the drawings. At the time of production a qualified welding procedure test must be available that is representative of the required production situation (basic material, filler material, component geometry and thickness, type of weld, welding position etc.). Questions must be directed via purchasing to the special welding engineer.</p>
132	<p>Welding certification according to RHEINMETALL specification:</p> <p>The supplier bindingly confirms with the tendering or with the order confirmation that he has a Rheinmetall welding certification according to technical specification EN ISO 3834. This specification also refers to the component classes as well as the processes to be carried out in the material groups according to DIN technical report CEN ISO/TR 15608 according to "Certification of manufacturer's qualification DIN 2303". At the time of production a qualified welding procedure test must be available that is representative of the required production situation (basic material, filler material, component geometry and thickness, type of weld, welding position etc.). Questions must be directed via purchasing to the special welding engineer.</p>

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FAI	<p>First Article Inspection (FAI): Basics</p> <p>Serial deliveries can only be initiated after approval for the First Article Inspection Report is given by RHEINMETALL. The First Article Inspection Report, requires to be enclosed to the delivery of the First Article unit. The required documentation level is designated by the respective QAC Code and can be found the purchase order.</p> <p>To document of the First Article Inspection, the Supplier can request FAI templates from Rheinmetall Purchasing department, if it was not enclosed with the order placed by RHEINMETALL Purchasing. This table of contents indicates which documentation must enclosed to the delivery. The Supplier must fill in and sign the table of contents accordingly and enclose it with the First Article Unit delivery.</p> <p>Serial production will be released after a positive First Article Inspection and the related documentation is approved by the RHEINMETALL's Quality Management Department. The inspection is either carried out as part of the incoming goods inspection of the First Article Unit (QAC requirement 206 to 208), or is conducted as part of an on-site visit to the supplier (QAC requirement 209).</p> <p>In the case of QAC specification 209 (acceptance by RHEINMETALL on site at the supplier's premises), the supplier must apply for acceptance at RHEINMETALL accordingly at least 14 days before the First Article Inspection is carried out.</p> <p>Series deliveries without written approval by RHEINMETALL, will always be rejected in the incoming goods department and sent back if necessary. In principle, RHEINMETALL reserves the right, in agreement with the supplier, to participate in the First Article Inspection at the supplier's premises, irrespective of the QAC specification.</p> <p>The supplier/manufacturer must carry out a new First Article Inspection at:</p> <ul style="list-style-type: none"> • Use of new manufacturing and production processes • Use of new machines or tools • Use of modified materials • Extensive tool changes and / or repairs • Relocation of the production site • Interruption of production over a longer period of time (≥ 24 months) • Repetition at special request of RHEINMETALL <p>Marking:</p> <p>The First Article unit shall be separately marked with tags, labels, or adhesive tape showing the following details:</p> <ul style="list-style-type: none"> • First sample • Drawing number • Material number • Naming • Order number <p>The supplier is engaged to perform tests and inspections on the item to be delivered according to IPC-A-610 class 3 (Acceptance criteria for electronic assemblies). Certificates shall be enclosed with the delivery.</p>
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206	<p>First Article Inspection according to submission level 1</p> <p>The supplier conducts the First Article Inspection and the related approval. The approval is based on the FAI results. Once a signed cover sheet of a positive First Article Inspection Report is provided approval is given. No further feedback / approval is given by RHEINMETALL.</p> <p>The supplier is responsible for archiving all related documentation required for the First Article Inspection. Upon request by RHEINMETALL, the documentation needs to be made available.</p>
208	<p>First Article Inspection according to submission level 2 (Full sampling)</p> <p>The First Article Inspection is required to be conducted by the supplier. The complete documentation requires to be submitted to RHEINMETALL together with the First Article unit. The approval of the First Article Inspection is given by RHEINMETALL. Upon approval, the cover sheet of the First Article Inspection Report will be signed by a RHEINMETALL representative. Serial deliveries can only be initiated after approval for the First Article Inspection Report is given by RHEINMETALL. The supplier is responsible for the execution of First Article Inspection without exception.</p> <p>The supplier is responsible for archiving all related documentation required for the First Article Inspection. Upon request by RHEINMETALL, the documentation needs to be made available.</p> <p>In the case of electronic assemblies, the supplier undertakes to carry out tests on the delivery item according to IPC-A-610 Class 3 (acceptance criteria for electronic assemblies). The delivery must be accompanied by certificates.</p>
209	<p>First Article Inspection – Submission Level 3 (Full First Article Inspection) conducted by a RHEINMETALL representative at the supplier premises</p> <p>The first article inspection is carried out by RHEINMETALL on site at the supplier premises. The supplier has to give notice the purchasing department as well as the responsible FAI manager of RHEINMETALL at least 14 days before the planned execution of a First Article Inspection. It is required for the supplier to provide the full set of First Article Inspection documentation via PDF to the following email address: Incoming.Inspection@rheinmetall.com</p> <p>After reviewing the documentation, the responsible FAI Manager contacts the supplier and arranges the FAI date. The First Article Inspection can be conducted by RHEINMETALL at the supplier premises or at RHEINMETALL. The approval of the First Article Inspection is given by RHEINMETALL. Upon approval, the cover sheet of the First Article Inspection Report will be signed by a RHEINMETALL representative. Serial deliveries can only be initiated after approval for the First Article Inspection Report is given by RHEINMETALL.</p> <p>The supplier is responsible for archiving all related documentation required for the First Article Inspection. Upon request by RHEINMETALL, the documentation needs to be made available.</p>

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211	Certification acc. to TLA 0023 H1 BK1 for components and parts manufactured or repaired by adhesive bonding in military products with general requirements. Products and components with high static and / or dynamic loads and with high safety relevance and / or high operational relevance.
212	Certification acc. to TLA 0023 H1 BK2 for components and parts manufactured or repaired by adhesive bonding in military products with general requirements. Products and components with high static and / or dynamic loads and with high safety relevance and / or high operational relevance.
213	Certification acc. to TLA 0023 H2 BK1 for components and parts manufactured or repaired by adhesive bonding in military products with general requirements. Products and components with high static and / or dynamic loads and with high safety relevance and / or high operational relevance.
222	Certification acc. to TLA 0023 H2 BK2 for components and parts manufactured or repaired by adhesive bonding in military products with general requirements. Products and components with high static and / or dynamic loads and with high safety relevance and / or high operational relevance.
223	Certification acc. to TLA 0023 H2 BK3 for components and parts manufactured or repaired by adhesive bonding in military products with general requirements. Products and components with high static and / or dynamic loads and with high safety relevance and / or high operational relevance.
300	<p>Certificates of Origin: For deliveries of goods not manufactured in Australia, a Certificate of Origin is required. <u>Kindly send the certificates of origin to:</u></p> <p>Incoming Inspection Quality Team Rheinmetall Defence Australia and New Zealand Vehicle Systems MILVEHCOE 111 Robert Smith St Redbank Qld AUSTRALIA Or email to Incoming.Inspection@rheinmetall.com</p>
301	<p>DIN EN 10204 Factory Certificate 2.2: The goods must be delivered with a Factory Certificate 2.2 according to DIN EN 10204 with non-specific tests. The goods and the factory certificates must be marked in such a way that the factory certificates can be assigned to the goods. The delivery must be accompanied by the certificates.</p>
304	<p>DIN EN 10204 Acceptance Test Certificate 3.1: The goods must be delivered with an Acceptance Test Certificate 3.1 according to DIN EN 10204 with specific tests. The goods and the acceptance test certificate must be marked in such a way that the acceptance test certificates can be assigned to the goods. The delivery must be accompanied by the certificates.</p>
309	<p>DIN EN 10204 Factory Certificate 2.2 for the Assembly: A Factory Certificate 2.2 according to DIN EN 10204 with non-specific tests must be delivered for the assembly. The material of the individual parts used must be stated in the order documents and must be procured by the contractor with acceptance test</p>

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	<p>certificate 3.1 according to DIN EN 10204. An assignment of the individual parts to the respective acceptance test certificates 3.1 must be listed in a “Declaration of conformity of the provider” according to DIN EN ISO/IEC 17050-1 and 2. Proper allocation of the acceptance test certificates 3.1 for the order and assembly must be ensured by you by marking the assembly at the prescribed / a suitable spot. Certificates as well as the acceptance test certificates of the individual parts must accompany the delivery.</p>
312	<p>Test report is to be created for the component / assembly. A test protocol must be created for the component/the assembly. The scope of the test characteristics to be certified can be found in the specifications listed in the drawing (e.g. test measurements), as well as the applicable standards and provisions, our applicable test specification (PV) and/or the respective test sheet. Test equipment used in the test report must be listed to ensure clear traceability. The completed test report (set point/actual values) must accompany your delivery.</p>
319	<p>Pre-material Quality Test: The quality test must be confirmed on the delivery note with the associated acceptance test certificate or on the acceptance test certificate itself. The delivery must be accompanied by certificates.</p>
320	<p>Pre-material Acceptance Test: For the pre-material an acceptance test certificate according to EN 10204-3.1 must be delivered. Scope of testing and marking can be found in the corresponding order documentation. The delivery must be accompanied by certificates. Proper allocation of the certificate to the order and the goods must be ensured by you by marking the goods at the prescribed/suitable spot.</p>
321	<p>Tested round steel chains: Test certificate and marking must be carried out according to DIN 685 part 4. The delivery must be accompanied by certificates.</p>
322	<p>Pressure Test: For the assembly a factory certificate according to EN 10204-2.2 with test results of the pressure test must be created. Test equipment used must be listed in the test report to ensure clear traceability. The documentation must be archived at the manufacturer and must be presented to Rheinmetall on request.</p>
324	<p>Pre-material Factory Certificate: For the pre-material a factory certificate according to EN 10204-2.2 must be delivered. The delivery must be accompanied by certificates.</p>
333	<p>Test Protocol – Archived Documentation: A test protocol must be created for the component/the assembly. The scope of the test characteristics to be certified can be found in the specifications listed in the drawings (e.g. test mass) as well as the applicable standards and provisions, our applicable test specification (PV) and/or the respective test sheet. Test equipment used must be listed in the test report to ensure clear traceability. The documentation must be archived at the manufacturer and must be presented to Rheinmetall on request.</p>
401	<p>Test Specifications: The supplier/manufacturer undertakes to provide the Rheinmetall quality management with test specifications for testing and approval. Test equipment to be used must be listed in the test protocol to ensure clear traceability. The test specifications must also contain the required performance data that must be proven, or that contains information on what is</p>

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	tested.
402	Inspection Schedule: The supplier/manufacturer undertakes to create an inspection schedule on placement of the order and forward it to the Rheinmetall quality management for testing and approval.
403	Quality Assurance Plan: The supplier/manufacturer undertakes to create a quality assurance plan (quality management plan) on placement of the order and forward it to the Rheinmetall quality management for testing and approval.
501	Quality Test to AQAP: This order is subject to the quality test in your company and its processing must meet the requirements of the applicable AQAP (2110, 2131, 2210). According to the respective subcontract a relevant AQAP request must be made to your sub-supplier. The quality test service will inform you about the quality test. You must notify the quality inspection body about the readiness for the quality test in due time so that the timely delivery is not impeded. During repair operations, the quality inspector must be presented with the invoice of the actually incurred working time and the actually incurred material for the issue of extracts of certificates and for the budgetary evaluation. The quality test must be confirmed by the quality test service on the delivery note, abroad on the form “Declaration of Conformity” according to AQAP - 2070 (annex B).
601	Declaration of Conformance: The supplier/manufacturer must create a declaration of conformity according to the EU directive applicable for this part. The documents required for these directives and the operating instructions must be delivered in German as well as in the national language specific to this order.
701	Visual Inspection: A visual inspection must be carried out on the delivery item in accordance with the relevant and valid regulations (e.g. DIN EN ISO 17637, DIN EN 1370, 10163-1 to 3). The scope of testing includes 100% of the parts to be delivered. Quality requirements and assessment groups can be found in the currently valid, constructive documents. The test and auxiliary materials used must be listed in the test report in order to ensure clear traceability. The documentation must be archived at the manufacturer and submitted to RHEINMETALL on request.
705	X-Ray Test: An x-ray test according to drawing/x-ray plan must be carried out for the delivery item. Scope of testing/testing frequency can be found in the applicable documents (ZE, standard, TD etc.). Test equipment must be listed in the test report to be able to ensure clear traceability. The report must be enclosed in the delivery.
706	Ultrasonic Test: An ultrasonic test according to the drawing must be carried out for the delivery item. Scope of testing/testing frequency can be found in the applicable documents (ZE, standard, TD etc.). Test equipment must be listed in the test report to be able to ensure clear traceability. The report must be enclosed in the delivery.
709	Measurement Report: The profile, the line, the concentricity deviation and the base tangent length must be

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	shown in a measurement report. Test equipment used must be listed in the test report to ensure clear traceability. The report must be enclosed in the delivery.
710	Tangent Length: The base tangent length must be recorded. Testing equipment used must be listed in the test report to be able to ensure clear traceability. The report must be enclosed in the delivery.
711	Heat Treatment: The characteristics of the heat treatment required in the drawing must be confirmed in a report/certificate. The report must be enclosed in the delivery.
759	Pressure Test: A pressure test must be performed for the delivery item. The test data can be found in the drawing. Test equipment used must be listed in the test report to ensure clear traceability. The report must be enclosed in the delivery.
763	Crack Test: A crack test must be carried out for the delivery item. The procedure is stated in the drawing. If there is no specification in the drawing, the procedure can be set by the manufacturer. Scope of testing/testing frequency can be found in the applicable documents (ZE, standard, TD etc.). Testing equipment used must be listed in the test report to be able to ensure clear traceability. The report must be enclosed in the delivery.
769	Layer Thickness Test: A layer thickness test must be carried out for the delivery item. Test equipment used in the test report must be listed to ensure clear traceability. The report must be enclosed in the delivery.
770	Surface Preparation: Surface preparation according to DIN EN ISO 12944-4 A 2 ^{1/2} . Rolling skin, rust, coatings and foreign bodies are removed. Remaining traces of contaminations must only be detectable as slight stains or stripy shades.
801	Accident Prevention Regulations: The delivery item is subject to the requirements of the associated accident prevention regulations (UVV).
803	Execution of the Traverse: Execution of the traverse according to the accident prevention regulation VBG 9A.
902	ISO 9001: The supplier/manufacturer undertakes to maintain a quality management system according ISO 9001 in the respective latest version. RHEINMETALL representatives have the right to convince themselves of the effectiveness of the quality management system at the supplier and his subcontractor (e.g. in the form of an audit). The supplier also undertakes to agree on a suitable quality assurance (e.g. in the form of a ISO) appropriate for the subcontractor item also with his subcontractors and to monitor these effectively. Actual values deviating from nominal values must be approved by RHEINMETALL by special release before shipment of the goods.
903	ISO 9001 (exclusions are permitted): The supplier/manufacturer undertakes to maintain a quality management system according to DIN EN ISO 9001 (exclusions permitted) in the respective current version. RHEINMETALL representatives have the right at any time to convince themselves of the effectiveness of the quality management system on site at the supplier and his subcontractors (e.g. in the form of an audit). The supplier also undertakes to agree on a suitable quality assurance (e.g. in the form of a

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	<p>DIN EN ISO) appropriate for the subcontractor item also with his subcontractors and to monitor these effectively. Actual values deviating from nominal values must be approved by RHEINMETALL by special release before shipment of the goods.</p>
905	<p>AQAP 2110/2210 (development, design, production):</p> <p>If relevant, the requirements of AQAP 2110 for development, design, production must be met. The respective relevance, which requirements apply in the course of the order, can be found in the corresponding order to the supplier. A quality management plan based on the requirements of AQAP 2105 must be drawn up. We ask for the certificate to be handed over or, if not available, for a description of the QM system. RHEINMETALL representatives and the main client or his representative (e.g. quality inspection service) have the right to convince themselves of the effectiveness of the quality management system and the contractual performance of the services during ongoing production at the supplier and its suppliers.</p>
907	<p>AQAP 2131 (final inspection):</p> <p>The supplier/manufacturer undertakes to execute quality assurance measures in accordance with the provisions of the AQAP-2131 (NATO quality assurance requirements for final inspection) delivery item.</p> <p>RHEINMETALL representatives have the right to convince themselves of the effectiveness of the quality management system at the supplier and his subcontractors.</p>
908	<p>AQAP 2210 (software development)</p> <p>If relevant, the requirements of AQAP 2210 for software development must be met. The respective relevance, which requirements apply in the course of the order, can be found in the corresponding order to the supplier. A quality management plan based on the requirements of AQAP 2105 must be drawn up. We ask for the certificate to be handed over or, if not available, for a description of the QM system. RHEINMETALL representatives and the main client or his representative (e.g. quality inspection service) have the right to convince themselves of the effectiveness of the quality management system and the contractual performance of the services during ongoing production at the supplier and its suppliers.</p>

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Revisions

Document Authorities:			
	Name	Title	Date
Process Owner	Dhana Chandrasekaran	Incoming Quality Inspection Lead	30/10/2021
Approver	Dhana Chandrasekaran	Incoming Quality Inspection Lead	30/10/2021
Revision History:			
Revision	Date	Description of changes	Approved
1.0	28/05/2021	Created Rheinmetall Defence Australia (RDA) version of Quality Assurance Conditions (QSB). Removed RLS internal document references and updated RDA contact details.	Dhana Chandrasekaran
2.0	30/10/2021	RIMS Conversion and First Release	Dhana Chandrasekaran