



AF 9100:2026

Aerospace Quality Management System

GUIDE

Frequently Asked Questions

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Use and document-control boundary

This companion implements the supplied AF 9100 requirement basis without changing the original standard. Its process allocation, examples, checklists and record design are authored implementation material. Actual mission or product limits, specialist procedures, permissions and genuine observations must be completed before consequential use. Applicable source minima and independent decision conditions cannot be reduced by this companion.

The printed edition date identifies the companion series; it is not evidence that later preparation, review or operational decisions occurred on that date. New support codes in this set are proposed allocations for controlled registration. Established AF-IG-9100-001, AF-FAQ-9100-001 and AF-TR-9100-001 identities are retained; earlier files, the corporate master list and ASTRA codes are not overwritten.

Equivalent combined or digital records are permitted when all required fields, relationships, authority and history remain intact. A completed PDF field or typed name is not evidence of an authenticated approval. Blank records in this delivery contain no invented applicant, signature, event or result.

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Select actual scope → complete application criteria → use the applicable procedure and technical book → capture authentic evidence → evaluate every applicable condition → obtain the required independent decision. Document availability does not establish implementation or conformity.

1 Reading these answers

These questions are authored from implementation risks in the supplied source. They are not claimed to be a ranked empirical survey or genuine applicant feedback. Read the cited complete source conditions and preserve every applicable requirement. A FAQ answer cannot amend a limit or grant authority.

Q001 How is document, record and publication control put into practice?

Separate requirements, operating instructions, blank templates, completed records and public extracts. Assign an owner and a unique identifier; record the source edition and the object that may rely on it. Retain original values, acquisition time, author, configuration and supporting files. A correction adds its reason, actor and approval without overwriting the original observation; prohibit retrospective completion of unobserved work.

Complete the handover through AF-FR-9100-001, AF-FR-9100-015, AF-FR-9100-032. A missing applicable instruction, inaccessible essential evidence or unapproved technical amendment prevents dependent use.

Source: 2.5, 7.10, 7.11, Y, AJ.1, AJ.7; procedure AF-PR-9100-001.

Q002 What happens in this adverse case?

An instruction is corrected after a released lot was inspected.

Preserve the original instruction and inspection results, classify whether technical intent changed, identify the affected lots and notify the responsible release function. A new PDF date does not repair the earlier evidence.

Synthetic scenario; no actual applicant event is asserted. Source: 2.5, 7.10, 7.11, Y, AJ.1, AJ.7.

Q003 How is scope, context, obligations and applicability put into practice?

Select ORG, PRD, SVC, PRC, PER, SUB or CAB and identify each separate requested conclusion. Record legal entity, actual performer, location, configuration, time boundary and lifecycle responsibility. Map each applicable technical, customer and legal obligation to the current controlled data and responsible authority. Resolve conflicting obligations before the affected commitment; keep confidential review available through lawful access.

Complete the handover through AF-FR-9100-001, AF-FR-9100-002, AF-FR-9100-013. An undefined object, unjustified exclusion or unresolved essential criterion holds admission or acceptance.

Source: 1, 2, 3, 4, A, AA.1, AA.2; procedure AF-PR-9100-002.

Q004 What happens in this adverse case?

A distributor starts repairing returned components.

Keep distribution evidence but add actual repair, process, competence, technical-data and release duties. A former distribution certificate does not cover the new service.

Synthetic scenario; no actual applicant event is asserted. Source: 1, 2, 3, 4, A, AA.1, AA.2.

Q005 How is governance, delegation, impartiality and stop authority put into practice?

Identify the accountable executive, management representative and relevant design, safety, production, digital, metrology and release authorities. State scope, limits, substitutes and reporting paths in written appointments. Specify delegated decisions, affected items, competence, duration, supervision and retained accountability. Confirm that supplier permissions and system access cannot enlarge the written delegation.

Complete the handover through AF-FR-9100-003, AF-FR-9100-006, AF-FR-9100-007, AF-FR-9100-014. Unresolved conflicts, expired delegation or a failed essential protective control prevent the affected authorization.

Source: 5, B, 9.6, 22.2, 28.1, AH.2; procedure AF-PR-9100-003.

Q006 What happens in this adverse case?

The commercial director asks a reviewer to remove a finding to meet a delivery date.

Retain the evidence-based finding, protect the release boundary and record the interference. Management may resource corrective work but cannot manufacture conformity.

Synthetic scenario; no actual applicant event is asserted. Source: 5, B, 9.6, 22.2, 28.1, AH.2.

Q007 How is risk, criticality, hazards and residual acceptance put into practice?

Identify the exact function, configuration, phase, environment, exposure and people or assets affected. Include storage, maintenance, foreseeable misuse and retirement as well as nominal operation. Convert each relied-upon mitigation into a controlled requirement with an owner, acceptance condition and verification. Examine whether a human action has enough time and information to work.

Complete the handover through AF-FR-9100-014, AF-FR-9100-016, AF-FR-9100-006. Unsupported critical consequence, unverified protection or unacceptable residual risk prevents dependent progression.

Source: 6.1, 8.1.1, 8.1.3, 11.5, B, E; procedure AF-PR-9100-004.

Q008 What happens in this adverse case?

An expensive support cart is classified C0 because it is not flight hardware.

Reassess actual human exposure and credible unintended movement. Use consequence rather than equipment label; require the corresponding technical review and protective evidence.

Synthetic scenario; no actual applicant event is asserted. Source: 6.1, 8.1.1, 8.1.3, 11.5, B, E.

Q009 How is objectives, opportunities and improvement portfolio put into practice?

Describe the intended outcome, affected users, baseline and causal hypothesis. Keep the opportunity record separate from the register accepting adverse risks. Retain source population and configuration. Reconcile dashboards to actual records, including missing data and failed outcomes. Do not retrospectively change a denominator to meet the target.

Complete the handover through AF-FR-9100-013, AF-FR-9100-027, AF-FR-9100-028. Undefined metrics or unassessed adverse effects prevent an achieved-benefit claim, not honest reporting of a shortfall.

Source: 6.2, 6.3, 9.1, 10.3, Z.1; procedure AF-PR-9100-005.

Q010 What happens in this adverse case?

On-time delivery rises after overdue orders are removed from the report.

Reinstate the due-order population and apply the prospective cancellation rule. Report the corrected result and investigate data governance rather than advertise an unsupported improvement.

Synthetic scenario; no actual applicant event is asserted. Source: 6.2, 6.3, 9.1, 10.3, Z.1.

Q011 How is change, configuration, work transfer and requalification put into practice?

Capture before-and-after requirements, hardware, software, model, process, source, location and instructions. Record why the change is needed and which physical or digital instances it may affect. Obtain responsible technical and required customer or authority approvals. Specify effectivity, serial or lot cut-in, mixed-configuration restrictions and any temporary expiry or rollback conditions.

Complete the handover through AF-FR-9100-015, AF-FR-9100-016, AF-FR-9100-021, AF-FR-9100-022. An unassessed essential difference, unsupported receiving capability or unapproved effectivity holds affected work.

Source: 6.4, 8.1.2, 8.1.5, 8.2.4, 8.3.6, 8.5.6, D, 25.6; procedure AF-PR-9100-006.

Q012 What happens in this adverse case?

An additive supplier changes powder reuse and the post-processing source together.

Evaluate both changes and the relevant material mechanisms. Qualify the actual new route and update source, build and unit genealogy before relying on the earlier process approval.

Synthetic scenario; no actual applicant event is asserted. Source: 6.4, 8.1.2, 8.1.5, 8.2.4, 8.3.6, 8.5.6, D, 25.6.

Q013 How is resources, facility integrity, equipment and tooling put into practice?

Define product or service demand, inspection and rework load, technical limits, specialist staffing, utilities and independent review demand. Count actual available capacity, not installed nameplate totals. Use an authorized readiness plan for completion, functional and integrated tests. Separate test acceptance from protective stop conditions; a failed interlock remains a blocking item.

Complete the handover through AF-FR-9100-017, AF-FR-9100-018, AF-FR-9100-029. Missing protective-function evidence or insufficient actual capability prevents operational acceptance.

Source: 7.1, 7.4, 8.5.1.1, 17; procedure AF-PR-9100-007.

Q014 What happens in this adverse case?

A test stand starts after maintenance but its protective isolation check fails.

Hold the affected operation, preserve the failed test and correct and retest isolation. Successful ordinary operation is not evidence of restored protection.

Synthetic scenario; no actual applicant event is asserted. Source: 7.1, 7.4, 8.5.1.1, 17.

Q015 How is workforce competence, awareness and task authorization put into practice?

Identify outputs, decisions, equipment, hazards, instructions, language and essential practical steps. Separate employee task permission, independent personnel certification and assessment-role credentials. Use preset criteria, representative tasks and anomalies. Retain independent results for mandatory components and every essential practical step; add AB/AE controls when those routes apply.

Complete the handover through AF-FR-9100-003, AF-FR-9100-010, AF-FR-9100-031. Unverified competence, a failed essential step or lack of actual task authority prevents independent task performance.

Source: 7.2, 7.3, 26, AB, AE; procedure AF-PR-9100-008.

Q016 What happens in this adverse case?

A candidate scores 86% knowledge and 92% practical but releases an indeterminate C2 result.

The essential hold step fails. Preserve the refusal and obtain remediation plus equivalent direct demonstration; do not average the two scores into authorization.

Synthetic scenario; no actual applicant event is asserted. Source: 7.2, 7.3, 26, AB, AE.

Q017 How is metrology, method validation and uncertainty decisions put into practice?

Identify object, configuration, property, units, conditions, actual limits and decision purpose. Separate specification limits from instrument resolution, control limits and uncertainty. State inputs, correction terms, sensitivities, distributions, standard uncertainties and covariance. Use a justified coverage factor; do not hide known bias in a larger uncertainty allowance.

Complete the handover through AF-FR-9100-005, AF-FR-9100-018, AF-FR-9100-023. Invalid inputs, wrong units, unavailable calibration, unsupported uncertainty or an indeterminate essential result prevent acceptance.

Source: 7.6, 7.7, 28.3, H, AD, AH.4; procedure AF-PR-9100-009.

Q018 What happens in this adverse case?

A nominal dimension is within tolerance but its uncertainty interval crosses the upper limit.

Under the agreed DR-A rule hold acceptance. An independently justified improved measurement may resolve it; repeated favorable selection or retrospective rule switching cannot.

Synthetic scenario; no actual applicant event is asserted. Source: 7.6, 7.7, 28.3, H, AD, AH.4.

Q019 How is technical tools, data integrity and evidence portability put into practice?

Identify the decision, consequence, algorithm, data model, units, interfaces, user roles and functions capable of creating or hiding a defect. Reconcile ingestion to the actual source, object, version and event time. Identify generated, simulated and reconstructed material; a hash proves neither physical truth nor engineering validity.

Complete the handover through AF-FR-9100-019, AF-FR-9100-029, AF-FR-9100-032. Failure of an essential known-answer, authority or relationship check blocks consequential use of the affected tool.

Source: 7.9, 7.11, 7.12, D, AJ.2, AJ.7; procedure AF-PR-9100-010.

Q020 What happens in this adverse case?

A migration copies every file, but a test report links to the wrong serial.

Reject semantic reconciliation despite matching file counts. Repair relationships, repeat the failing case and review conclusions already relying on the incorrect link.

Synthetic scenario; no actual applicant event is asserted. Source: 7.9, 7.11, 7.12, D, AJ.2, AJ.7.

Q021 How is customer requirements, communication and contract review put into practice?

Collect customer requirements, promised marketing claims, intended use and technical, delivery, support and retirement needs. Confirm missing written instructions through a controlled record. Identify disagreements with proposals, conflicting obligations and inaccessible data. Obtain a valid agreed change before commitment rather than assuming a later concession.

Complete the handover through AF-FR-9100-001, AF-FR-9100-002, AF-FR-9100-013, AF-FR-9100-015. Unresolved safety obligation, unavailable essential data or unsupported capability holds the affected commitment.

Source: 8.2, 8.2.1, 8.2.2, 8.2.3, 8.2.4, 4.5; procedure AF-PR-9100-011.

Q022 What happens in this adverse case?

A repeat order has the same part number but a longer mission duration.

Reopen technical and support feasibility, life and environment assumptions. A repeated commercial identifier does not preserve the old acceptance basis.

Synthetic scenario; no actual applicant event is asserted. Source: 8.2, 8.2.1, 8.2.2, 8.2.3, 8.2.4, 4.5.

Q023 How is design, systems engineering and lifecycle gates put into practice?

Record users, success and protective states, environments, support assumptions and lifecycle roles. Allocate verifiable requirements to physical, digital, human and service functions. Review hazards, common causes, resource budgets and assumptions. Validate models for their exact decision domain; identify where simulation cannot observe or bound an essential physical property.

Complete the handover through AF-FR-9100-002, AF-FR-9100-015, AF-FR-9100-016, AF-FR-9100-023. Unresolved essential interface, unsafe residual condition or unsupported model use holds the dependent gate.

Source: 8.3, 8.3.1, 8.3.2, 8.3.3, 8.3.4, 8.3.5, 8.3.6, 11, C; procedure AF-PR-9100-012.

Q024 What happens in this adverse case?

A component qualifies on the bench but the installation changes cooling and power supply.

Retain only relevant unchanged evidence. Add installation-specific verification and update hazards and support instructions before an integrated-system conclusion.

Synthetic scenario; no actual applicant event is asserted. Source: 8.3, 8.3.1, 8.3.2, 8.3.3, 8.3.4, 8.3.5, 8.3.6, 11, C.

Q025 How is supplier qualification, purchasing and sub-tier assurance put into practice?

Record legal and actual performer, operating site, supplied work, technical baseline, criticality and further tiers. Separate brokers from sources that perform the work. Record approved scope, conditional development, restrictions, suspension or disapproval. Conditional trial status limits work and segregation; it is not unrestricted production permission or a SUB certificate.

Complete the handover through AF-FR-9100-009, AF-FR-9100-020, AF-FR-9100-022. Missing critical flow-down, unassessed source change or unsupported site capability prevents dependent use.

Source: 8.4, 8.4.1, 8.4.2, 8.4.3, 27, J, AF; procedure AF-PR-9100-013.

Q026 What happens in this adverse case?

A bonded assembly uses an unreported surface-treatment sub-tier.

Identify its actual role and affected serials, hold unsupported acceptance and obtain qualified evidence and approved flow-down. Supplier reputation does not replace the missing route evidence.

Synthetic scenario; no actual applicant event is asserted. Source: 8.4, 8.4.1, 8.4.2, 8.4.3, 27, J, AF.

Q027 How is incoming verification, authenticity and suspect items put into practice?

Check order, item, manufacturer, source, lot or serial, quantities, condition, configuration and required evidence. Identify customer-supplied information separately from observed facts. Segregate suspect, expired, damaged or unverified input. Preserve original records and investigate without treating an allegation as proven misconduct before evidence supports it.

Complete the handover through AF-FR-9100-020, AF-FR-9100-024, AF-FR-9100-006. Unknown eligibility, incompatible material evidence or suspect authenticity holds affected inputs.

Source: 8.1.4, 8.4.2, 18.1, 21.4; procedure AF-PR-9100-014.

Q028 What happens in this adverse case?

A certificate is genuine but belongs to a different material batch.

It cannot support the received batch. Keep receipt and source evidence separate and obtain valid batch-specific verification before acceptance.

Synthetic scenario; no actual applicant event is asserted. Source: 8.1.4, 8.4.2, 18.1, 21.4.

Q029 How is production and service work-route control put into practice?

Connect actual order and configuration to current instructions, materials, equipment, competent people, hold points and acceptance plan. Reconcile departmental baselines before work starts. Preserve genealogy through split lots, merge, rework, partial completion and scrap. Record material consumption and the actual loaded software; a balance alone does not prove correct identity.

Complete the handover through AF-FR-9100-021, AF-FR-9100-022, AF-FR-9100-024, AF-FR-9100-025. An unverified essential operation, missing genealogy or out-of-window process remains held from acceptance.

Source: 8.1, 8.5, 8.5.1, 8.5.2, 25.5; procedure AF-PR-9100-015.

Q030 What happens in this adverse case?

The final functional test passes after a required concealed assembly check was missed.

Determine whether the final test can validly establish that hidden characteristic. Preserve the gap and obtain an approved evidence path; do not insert a retrospective inspection signature.

Synthetic scenario; no actual applicant event is asserted. Source: 8.1, 8.5, 8.5.1, 8.5.2, 25.5.

Q031 How is special-process qualification and continuing control put into practice?

Identify material and geometry ranges, site, equipment, software, preparation, principal processing and downstream treatments that can influence required hidden properties. Issue the exact qualified route, people, equipment, work instructions, monitoring and change triggers. Machine or supplier qualification does not certify every output.

Complete the handover through AF-FR-9100-022, AF-FR-9100-018, AF-FR-9100-023, AF-FR-9100-009. Unqualified variables or unobservable required properties prevent unrestricted production acceptance.

Source: 8.5.1.2, 18, 25, L; procedure AF-PR-9100-016.

Q032 What happens in this adverse case?

A bonding run exceeds its approved out-time but the bond looks normal.

Preserve the excursion and assess its material mechanism through competent technical disposition. Appearance cannot erase a hidden-property uncertainty.

Synthetic scenario; no actual applicant event is asserted. Source: 8.5.1.2, 18, 25, L.

Q033 How is first article and production-readiness verification put into practice?

List changed characteristics and dependencies. Justify every unchanged characteristic for which prior evidence will be retained; a partial first article is not an unexplained shortcut. Use numeric results for numeric criteria, units, equipment, corrections and uncertainty where needed. Check material and external process records belong to the article.

Complete the handover through AF-FR-9100-021, AF-FR-9100-022, AF-FR-9100-023, AF-FR-9100-025. A missing mandatory characteristic or unsupported production route prevents a complete first-article conclusion.

Source: 8.5.1.3, K, 23.4; procedure AF-PR-9100-017.

Q034 What happens in this adverse case?

A firmware identity check matches but its required function test was not performed.

Identity and function are separate characteristics. Keep the functional row open and complete the required representative test before closure.

Synthetic scenario; no actual applicant event is asserted. Source: 8.5.1.3, K, 23.4.

Q035 How is cleanliness, preservation, packaging and property put into practice?

Identify moisture, temperature, corrosion, vibration, cleanliness, ESD, shelf life, compatibility and hazardous-interface requirements from the actual article and route. Use representative route and exposure evidence where required. Preserve labels, seals, quantities, environmental history and receiving checks through every transfer.

Complete the handover through AF-FR-9100-024, AF-FR-9100-020, AF-FR-9100-026. Unknown damaging exposure or incompatible preservation prevents routine acceptance of affected items.

Source: 7.5, 8.5.3, 8.5.4, 18.7, 21.5; procedure AF-PR-9100-018.

Q036 What happens in this adverse case?

A humidity alarm clears before a stored electronic assembly is dispatched.

Identify the exposed assembly and its time and packaging history, assess suitability under the actual technical basis, and document disposition rather than assuming the cleared alarm closes the issue.

Synthetic scenario; no actual applicant event is asserted. Source: 7.5, 8.5.3, 8.5.4, 18.7, 21.5.

Q037 How is verification campaigns, ndt and test reporting put into practice?

Identify every applicable characteristic, exact configuration, purpose, method and acceptance rule.

Distinguish qualification, routine acceptance, research and provider competence. Capture raw inputs and responses, conditions, operator, method version, deviations, interruptions and alarms. Label simulated or model-derived results and expose inaccessible features.

Complete the handover through AF-FR-9100-005, AF-FR-9100-018, AF-FR-9100-023, AF-FR-9100-006. Missing critical channel, unqualified detection or unrepresentative evidence holds the dependent result.

Source: 8.3.4, 11.6, 14.2, 18.6, M, AH.4, AH.5; procedure AF-PR-9100-019.

Q038 What happens in this adverse case?

One NDT demonstration detects an easy reference flaw and is claimed to prove all installed defects are detectable.

Restrict the conclusion to the demonstrated material, geometry, access and technique. Establish representative defect and statistical evidence before a broader detection claim.

Synthetic scenario; no actual applicant event is asserted. Source: 8.3.4, 11.6, 14.2, 18.6, M, AH.4, AH.5.

Q039 How is technical acceptance, reporting and authorized release put into practice?

Record serial, lot, event or family configuration, actual scope and the approved requirement and decision basis. Separate internal release from independent conformity attestation. Confirm exact technical authority and lawful scope of any bounded departure. Preserve the unmet original criterion; a concession is not proof that it was fulfilled and cannot remove attestation gates.

Complete the handover through AF-FR-9100-005, AF-FR-9100-007, AF-FR-9100-025, AF-FR-9100-026. Unclosed release blocker, unsupported configuration or unavailable authority prevents release of the dependent claim.

Source: 8.6, 22, 23, 24.4, AD; procedure AF-PR-9100-020.

Q040 What happens in this adverse case?

A completed service is invoiced while one required test is still unavailable.

Commercial completion is separate from technical acceptance. Restrict the service claim until valid evidence and authorized release are available.

Synthetic scenario; no actual applicant event is asserted. Source: 8.6, 22, 23, 24.4, AD.

Q041 How is nonconformity, containment, escape and corrective action put into practice?

Identify exact clause or criterion, actual observation, configuration, scope and gap. Classify critical, major, minor or observation based on evidence; decide necessary technical protection separately. Examine design, workflow, equipment, software, people conditions, suppliers and management incentives. Record competing explanations and evidence; operator error or training alone is not a complete systemic cause.

Complete the handover through AF-FR-9100-006, AF-FR-9100-014, AF-FR-9100-027, AF-FR-9100-028. An open in-scope nonconformity blocks initial attestation, renewal and extension even if an action plan is accepted.

Source: 8.7, 10.1, 10.2, W, AD.7, AD.8, AG.4; procedure AF-PR-9100-021.

Q042 What happens in this adverse case?

A fixture offset potentially affects 240 items, 150 already shipped.

Hold the 90 local items, trace and notify both receiving customers and reassess all 240 through valid methods. Recalibration alone neither proves all items defective nor resolves their disposition.

Synthetic scenario; no actual applicant event is asserted. Source: 8.7, 10.1, 10.2, W, AD.7, AD.8, AG.4.

Q043 How is performance, reliability and customer evidence put into practice?

Specify population, configuration, duty, exposure, failure, downtime, observation window and intended inference. Distinguish prediction, demonstration, field observation and qualification. Retain formulas, units, inputs, uncertainty and known-answer checks. Apply the Technical Reports methods only within their stated assumptions; undefined denominators remain undefined.

Complete the handover through AF-FR-9100-027, AF-FR-9100-014, AF-FR-9100-006. An invalid model or unspecified denominator prevents the unsupported numerical claim.

Source: 9.1, 9.2, 11.4, F, G, I, Z; procedure AF-PR-9100-022.

Q044 What happens in this adverse case?

A service has 96% availability while some available periods produce incorrect data.

Report availability and output correctness separately and investigate affected outputs. The availability measure does not prove technical validity.

Synthetic scenario; no actual applicant event is asserted. Source: 9.1, 9.2, 11.4, F, G, I, Z.

Q045 How is internal audit and requirement-level evaluation put into practice?

Map relevant clauses, normative annexes, sites, shifts, remote work and external interfaces. Complete the applicable internal programme within 12 months and C2/C3 critical-control examination within six months. Combine current documents, interviews, witnessed work and original results. Resolve remote-access limitations through supplementary evidence or a bounded conclusion.

Complete the handover through AF-FR-9100-004, AF-FR-9100-006, AF-FR-9100-028. Uncovered mandatory scope or unsupported auditor competence prevents declaring the internal programme complete.

Source: 9.3, V, AB; procedure AF-PR-9100-023.

Q046 What happens in this adverse case?

All corporate procedures were reviewed but a night-shift critical process was never examined.

Retain the coverage gap, resource the required observation and update the audit plan. Document presence is not evidence of that shift's implementation.

Synthetic scenario; no actual applicant event is asserted. Source: 9.3, V, AB.

Q047 How is management review and independent assurance challenge put into practice?

Include prior actions, context, obligations, objectives, performance, conformity, delivery, customers, suppliers, audits, findings, risks, opportunities and resources. For high-consequence work apply Annex B independence and retain competing views. The designer or action owner cannot close a contested critical assumption solely by restating confidence.

Complete the handover through AF-FR-9100-028, AF-FR-9100-013, AF-FR-9100-014. Unaddressed essential capability or protective concern prevents treating review minutes as release authority.

Source: 5.1, 9.4, 9.5, 9.6, B; procedure AF-PR-9100-024.

Q048 What happens in this adverse case?

An overdue inspection-resource gap is repeatedly noted without action.

Assign actual resource and restriction decisions and verify implementation. Repeated acknowledgement does not demonstrate an effective management response.

Synthetic scenario; no actual applicant event is asserted. Source: 5.1, 9.4, 9.5, 9.6, B.

Q049 How is knowledge preservation and lifecycle learning put into practice?

Map design rationale, process experience, failure mechanisms, source/build environments, support data and tacit skills to actual continuing obligations. Check relevant learning at programme start, design review, purchasing, process change and support planning. Record why a prior solution applies or does not apply to the new context.

Complete the handover through AF-FR-9100-031, AF-FR-9100-028, AF-FR-9100-032. Loss of essential support knowledge or source access holds the claim that depends on it until a valid alternative exists.

Source: 7.8, 10.3, 10.4, 12.9; procedure AF-PR-9100-025.

Q050 What happens in this adverse case?

A digital product is supported only by an obsolete build service.

Preserve or reconstruct an authorized build and validation environment and verify transferred meaning. A stored executable alone may not support the required long-life maintenance.

Synthetic scenario; no actual applicant event is asserted. Source: 7.8, 10.3, 10.4, 12.9.

Q051 How is continuity, emergency interfaces and assured recovery put into practice?

Record critical functions, maximum tolerable interruptions under the real profile, recovery objectives, alternate sources and common failures. Record real event chronology, affected configurations and outputs, original evidence and required notices. Keep protective operations distinct from investigation and public status administration.

Complete the handover through AF-FR-9100-029, AF-FR-9100-017, AF-FR-9100-006, AF-FR-9100-008. Availability restored without required integrity or protective evidence does not authorize assured use.

Source: 6.5, 13.7, 19.5, 24.6, O; procedure AF-PR-9100-026.

Q052 What happens in this adverse case?

An exercise meets RTO 4 h and RPO 1 h but loses a configuration link.

Record the time objectives as met and assured use as held. Correct and repeat the relationship check before accepting recovery.

Synthetic scenario; no actual applicant event is asserted. Source: 6.5, 13.7, 19.5, 24.6, O.

Q053 How is software, ai, models and trusted updates put into practice?

Identify requirements, criticality, architecture, domain, users, permitted and prohibited actions, interfaces and recovery. Assess whether the proposed tool is necessary and sufficiently verifiable. Assess trust, privileges, vulnerabilities, OT compatibility and safety-security conflicts. Intrusive tests require written safe authorization; signatures alone do not establish technical suitability.

Complete the handover through AF-FR-9100-019, AF-FR-9100-029, AF-FR-9100-005, AF-FR-9100-007. Unknown target configuration, invalid evaluation or failed essential protection blocks consequential deployment.

Source: 12, 13, N, O; procedure AF-PR-9100-027.

Q054 What happens in this adverse case?

A model's overall accuracy is high but a separately tested difficult defect set has low recall.

Retain both populations and limitations. Resolve the critical domain or enforce a technically validated restriction; do not pool it into a favorable overall score.

Synthetic scenario; no actual applicant event is asserted. Source: 12, 13, N, O.

Q055 How is maintenance, repair, distribution and retirement put into practice?

Record actual facility or station, asset family, task, data, people, tools, parts and release authority. Advisory work and hands-on maintenance retain distinct scopes. Use an approved repair or overhaul basis and valid detection for hidden damage. A successful bench test cannot reset missing life history or establish an unsupported as-new claim.

Complete the handover through AF-FR-9100-026, AF-FR-9100-024, AF-FR-9100-009, AF-FR-9100-025. Unverified life, parts eligibility, mandatory inspection or release authority prevents the affected service release.

Source: 8.5.5, 15.6, 21, T; procedure AF-PR-9100-028.

Q056 What happens in this adverse case?

A serviceable-looking part is recovered from a stored vehicle with no exposure history.

Retain the unknown history and apply the real eligibility and life assessment. Cosmetic condition or a functional check does not establish unrestricted use.

Synthetic scenario; no actual applicant event is asserted. Source: 8.5.5, 15.6, 21, T.

Q057 How is environmental claims, human factors and responsible innovation put into practice?

Record lifecycle boundary, functional unit, period and actual environmental responsibilities. Define user populations, tasks and exposure separately from emissions or resource metrics. Use representative users, conditions, workload, access, language, alarms and errors. Identify essential protective tasks and demonstrate actual feasible intervention, not merely a warning or nominal approval button.

Complete the handover through AF-FR-9100-030, AF-FR-9100-014, AF-FR-9100-019, AF-FR-9100-027. An omitted material category, failed essential human task or unqualified reused input blocks the related claim or release.

Source: 6.6, 20, U; procedure AF-PR-9100-029.

Q058 What happens in this adverse case?

A partial manufacturing inventory is advertised as the full lifecycle footprint.

Correct the boundary and wording and add required use and end-of-life evidence before any full-lifecycle claim. Uncertainty arithmetic does not account for omitted stages.

Synthetic scenario; no actual applicant event is asserted. Source: 6.6, 20, U.

Q059 How is scheme admission, participation terms and operator authority put into practice?

Identify the requested route, object, profile and real operator authorization. A development enquiry for an unavailable capability must not be sold as a live conformity assessment. For initial ORG assess actual internal audit, management review and sufficient implemented records. Do not impose a corporate audit on an individual PER candidate or request fabricated operating history.

Complete the handover through AF-FR-9100-001, AF-FR-9100-002, AF-FR-9100-003, AF-FR-9100-004, AF-FR-9100-032. Unreleased or unauthorized scope, unresolved method or unavailable independent competence holds admission.

Source: 22.8, 28.1, AA.1, AA.2, AA.3, AA.7, AH.1; procedure AF-PR-9100-030.

Q060 What happens in this adverse case?

An applicant asks the operator to add an unfamiliar laboratory method to its offer.

Classify it as scope development until technical criteria, competence, witnessing and authority are ready; do not infer capability from an existing organizational certificate.

Synthetic scenario; no actual applicant event is asserted. Source: 22.8, 28.1, AA.1, AA.2, AA.3, AA.7, AH.1.

Q061 How is assessment planning, audit time, site coverage and remote work put into practice?

Identify route, scope, sites, shifts, processes, criticality, methods, languages, adverse history and necessary witnesses. Assign technical specialists to the tasks they will actually perform. Document identity, live evidence, confidentiality, configuration, access, recording permission and representation. Add physical witnessing where remote review cannot establish the required capability.

Complete the handover through AF-FR-9100-004, AF-FR-9100-003, AF-FR-9100-005, AF-FR-9100-028. Insufficient task, site or method coverage prevents a complete evaluation recommendation.

Source: 22.3, V, AC, AA.3; procedure AF-PR-9100-031.

Q062 What happens in this adverse case?

Nine eligible low-consequence sites are proposed for surveillance using three sampled sites.

The source formula requires five eligible sites, at least two random, plus central and separately mandatory locations. Three is not sufficient under the uploaded rule.

Synthetic scenario; no actual applicant event is asserted. Source: 22.3, V, AC, AA.3.

Q063 How is assessor qualification, impartiality and continuing authorization put into practice?

Separate auditor, lead, expert, application reviewer, technical reviewer, decider and appeal reviewer. Record route, sector, method, criticality, language and access limits. Use the source bootstrap arrangement where necessary and retain reviewer qualifications and conflicts. Authorize only the demonstrated role; expert knowledge does not automatically grant audit leadership or decision authority.

Complete the handover through AF-FR-9100-003, AF-FR-9100-031, AF-FR-9100-010. An unmet entry, current-practice, essential-step or conflict condition prevents the affected independent role.

Source: AB, 28.2; procedure AF-PR-9100-032.

Q064 What happens in this adverse case?

A technical specialist is asked to make the final decision on an evaluation they performed.

Use their technical output as evaluation evidence and appoint a separate competent authorized independent decision function. A specialist title does not create case independence.

Synthetic scenario; no actual applicant event is asserted. Source: AB, 28.2.

Q065 How is personnel examination, remediation and credential control put into practice?

Define actual tasks, prerequisites, practical skills, hazards, equipment, methods, essential steps and lawful scope. Publish candidate information and fair access arrangements without lowering essential competence. Require knowledge at least 80%, practical at least 85% and every essential step passed. A trainer cannot be the sole examiner, reviewer and decider; the final decider is not the examiner.

Complete the handover through AF-FR-9100-010, AF-FR-9100-003, AF-FR-9100-008, AF-FR-9100-011. A failed essential practical control prevents credential grant regardless of aggregate score.

Source: 26, AE, AB.2; procedure AF-PR-9100-033.

Q066 What happens in this adverse case?

A candidate changes employer while a credential remains within its period.

The credential may still be relevant, but the new employer must verify local task suitability and issue its own authorization before independent work.

Synthetic scenario; no actual applicant event is asserted. Source: 26, AE, AB.2.

Q067 How is independent decisions, attestations, claims and registry put into practice?

Identify exact object, profile, scope, period, criteria, evidence, findings, configuration and proposed public statement. Verify the evaluated scope is technically and administratively complete. For initial grant, renewal and extension require every applicable mandatory condition, adequate evidence and all in-scope nonconformities closed. Votes, payment and a high maturity score cannot supply a missing condition.

Complete the handover through AF-FR-9100-007, AF-FR-9100-005, AF-FR-9100-006, AF-FR-9100-008, AF-FR-9100-032. Missing independent authority, unsupported mandatory evidence or open in-scope nonconformity prevents a positive new attestation.

Source: 22, AA.5, AA.6, AD, AH.8, AJ.2; procedure AF-PR-9100-034.

Q068 What happens in this adverse case?

All checks pass except one minor finding that has a promised future correction.

Hold initial, renewed or extended attestation until verified closure. The bounded rule for an already existing minor does not permit a new certificate with open findings.

Synthetic scenario; no actual applicant event is asserted. Source: 22, AA.5, AA.6, AD, AH.8, AJ.2.

Q069 How is surveillance, renewal, status, transfer and closure put into practice?

Record decision, issue, expiry, completed surveillance and profile-specific conditions separately. Use actual time zone, calendar rules and the shortest interval for inseparable mixed criticality. State scope, prohibited use, actions and the 90-day final resolution limit. Restore only on evidence, restrict independently unaffected scope or withdraw; preserve original expiry unless full renewal occurs.

Complete the handover through AF-FR-9100-008, AF-FR-9100-006, AF-FR-9100-009, AF-FR-9100-010, AF-FR-9100-032. Missed required surveillance or unsupported continuing conformity triggers the applicable affected status action.

Source: 22.6, AG, AB.7, AE.8, AH.9; procedure AF-PR-9100-035.

Q070 What happens in this adverse case?

A suspended holder requests a new certificate number to restart the clock.

Retain the original suspension and expiry history. A new number is not evidence of correction, renewal or restoration.

Synthetic scenario; no actual applicant event is asserted. Source: 22.6, AG, AB.7, AE.8, AH.9.

Q071 How is complaints, appeals and protected concern handling put into practice?

Record receipt, reporter channel, object, decision and grounds. Distinguish complaint, appeal and urgent safety or integrity concern; accept material good-faith information without membership or application-fee barriers. Examine controlling requirements, original evidence, method and reasoning as well as contrary and new information. Give parties a fair response opportunity through lawful confidentiality arrangements.

Complete the handover through AF-FR-9100-011, AF-FR-9100-006, AF-FR-9100-007, AF-FR-9100-008. Missing independent review or essential evidence holds a supported appeal conclusion; necessary protection remains

active.

Source: 5.4, 22.7, AI; procedure AF-PR-9100-036.

Q072 What happens in this adverse case?

An applicant appeals an indeterminate measurement because the nominal value is within tolerance.

Review the actual prospective DR-A rule and interval. Uphold a correct original hold; later improved evidence supports a new decision rather than making the original record false.

Synthetic scenario; no actual applicant event is asserted. Source: 5.4, 22.7, AI.

2 Route-specific limits

Q073 What does the ORG result actually cover?

The declared legal organization, its actual sites, functions and retained delivery responsibilities; not automatic conformity of all products or people.

Apply 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 22, A, B, D, V, W, AA, AB, AC, AD, AG with the actual profile. Record the source F01/F02 scope and F07 decision separately; F01-F12 are AF 9100 forms, not ASTRA programme families.

Q074 What does the PRD result actually cover?

Identified product, configuration, variant family, lot or serial and its actual technical criteria, qualification and acceptance; no statutory approval is created.

Apply 23, AA, AD, AG, K, M with the actual profile. Record the source F01/F02 scope and F07 decision separately; F01-F12 are AF 9100 forms, not ASTRA programme families.

Q075 What does the SVC result actually cover?

Specified service or event, time window, customer boundary, providers and validated delivery outcomes; not every service of the corporation.

Apply 24, AA, AD, AG, T with the actual profile. Record the source F01/F02 scope and F07 decision separately; F01-F12 are AF 9100 forms, not ASTRA programme families.

Q076 What does the PRC result actually cover?

Site-, equipment-, material- and condition-specific process capability and monitoring; not independent acceptance of every resulting output.

Apply 25, AA, AD, AG, L, G with the actual profile. Record the source F01/F02 scope and F07 decision separately; F01-F12 are AF 9100 forms, not ASTRA programme families.

Q077 What does the PER result actually cover?

Competence for a defined job profile and period; employer task authorization and required professional permissions remain separately granted.

Apply 26, AE, AB, AA, AG with the actual profile. Record the source F01/F02 scope and F07 decision separately; F01-F12 are AF 9100 forms, not ASTRA programme families.

Q078 What does the SUB result actually cover?

The actual supplied work, performer, source location and sub-tier arrangements; not blanket corporate or broker approval.

Apply 27, J, AF, AA, AD, AG with the actual profile. Record the source F01/F02 scope and F07 decision separately; F01-F12 are AF 9100 forms, not ASTRA programme families.

Q079 What does the CAB result actually cover?

Actual testing, calibration, inspection or certification activity, method/range/location and independence; no self-accreditation or automatic equivalence.

Apply 28, AH, AB, AA, AD, AG, AI, AJ with the actual profile. Record the source F01/F02 scope and F07 decision separately; F01-F12 are AF 9100 forms, not ASTRA programme families.

3 Preserve real enquiries and controlled interpretations

Genuine question ID / reporter / actual receipt

Exact source provision and evaluated context

Proposed competing interpretations and evidence

Competent reviewer / conflict clearance

Controlled answer / requirement-change classification

Actual authority, effectivity and affected-document communication

An interpretation explains an existing condition. A substantive change follows Annex Y, including the actual consultation and adoption process. An unanswered material ambiguity keeps the dependent conclusion held.