



AF-PR-9400-014

Technical Manufacturing Profile Selection and Execution

Space / Aviation / Defense

FIRST EDITION

AF 9400 SUPPORTING DOCUMENT

Document identity and use

FIRST EDITION MANUSCRIPT - Prepared for Aerospace Federation review

Field	Controlled identity
Document	AF-PR-9400-014 - Technical Manufacturing Profile Selection and Execution
Parent standard	AF 9400 - Aerospace Manufacturing, Materials & Supply Chain
Edition / language	FIRST EDITION / English master text
Family	Procedures
Primary source anchors	18-24; Annexes C, F-G
Suggested local owner	Procedure owner identified in execution table
Authority	Publisher approval and effective date are not assigned. Local use requires authorized adoption and completed parameters.

Use with the main standard

This document implements the identified AF 9400 clauses and annexes. Read the complete applicable requirements in the main standard. The source anchors are navigation references; a template does not replace technical judgement, evidence, permission or eligible approval.

AF-ML-9400-001 lists the complete supporting set. AF-CM-9400-001 maps the main clauses and annexes to working documents. AF-TP-9400-001 establishes the common local parameter baseline; add the relevant discipline profiles.

Record control

Identify the object, configuration, record owner and dates. Reference attachments by stable identifier and version. Keep superseded evidence and decisions traceable. Use the approved local retention, access and authentication arrangements. No process recipe, numerical limit, interval or acceptance value is assigned by a blank template.

Implementation model: Translate the stated responsibilities and controls into the actual organization. Informative examples remain explanatory; use approved programme-specific values for operational decisions.

1 Purpose, trigger and inputs

A material-specific manufacturing, joining, surface or assembly operation is planned.

Required inputs: Approved route, material state, critical characteristics, process qualification and local parameters.

Use the complete parent requirements at 18-24; Annexes C, F-G. Assign an eligible owner to each step; retain the actual baseline and time of each material action.

2 Controlled execution

Step / responsible role	Required action	Retained output
1 / Technical lead	Select all triggered profiles and complete the common parameter baseline.	Applicability and profiles
2 / Process owner	Translate qualified limits and interactions into executable instructions.	Released route
3 / Operator	Verify inputs and execute with actual parameters and hidden-feature evidence.	Run and traveler
4 / Reviewer	Assess excursions and limit conclusions to demonstrated conditions.	Process disposition

Decision control: A profile name or completed machine programme does not establish actual product exposure.

2.1 Exceptions and escalation

Preserve the observed condition, affected object, evidence and decision state. Refer a deviation or anomaly to its eligible technical authority. Record why a departure is acceptable, what remains blocked and whether readiness, qualification, acceptance or release must be reconsidered.

3 Closure and handoff

A controlled discipline-specific operation with traceable inputs, conditions and output evidence.

The receiving owner verifies the outputs. Open items retain an owner, due basis and blocked scope; a due date does not authorize closure.

3.1 Working records

AF-FR-9400-014, AF-TP-9400-002, AF-TP-9400-003, AF-TP-9400-004, AF-TP-9400-005, AF-TP-9400-006, AF-TP-9400-007, AF-TP-9400-008, AF-CL-9400-012, AF-CL-9400-013, AF-CL-9400-014, AF-CL-9400-015, AF-CL-9400-016, AF-WI-9400-004, AF-WI-9400-005, AF-WI-9400-007. Consult AF-ML-9400-001 for titles and locations. Reopen affected steps when configuration, conditions, evidence validity or delegated authority changes. Verify the actual technical handoff during assurance review.