

Annex 5

Approved Maintenance Organisations (AMO)

Introduction

This annex is an integral part of the CASA Surveillance Manual (CSM), which should be referenced at all times. To allow for more frequent revisions, this annex can be updated independent of the CSM and other annexes. The process of updating this annex requires verification and approval from its owners and sponsors, as well as from Coordination and Safety Systems (CSS). An updated version can only be published once CSS has finalised the format, with the latest revision history data included in the revision table.

Revision history

Revisions to this annex are recorded below in order of the most recent first.

Version N°.	Date	Parts / sections	Details
5.2	July 2021	Section 2	Addition of Internal Audit prompt within both Process in Practice and Safety Assurance
5.1	May 2021	Section 2	Addition of Process in Practice, DAMP and DG System and Elements
5.0	December 2019	Section 2.1	Change of where to locate Health Check mandatory elements
4.0	April 2019	Inclusion of Introduction and Revision history.	These inclusions allow for updates and revisions independent of the CSM and other annexes.
4.0	April 2019	Section 2.1	Removal of recommended Health Check timeframes.
4.0	April 2019	Section 3	Removal of recommended surveillance intervals.
4.0	April 2019	Section 4	Addition of third-party audits.

1 Overview

This Annex provides instructions for conducting surveillance of Approved Maintenance Organisations (AMO), including CAR 30 Certificates of Approval and CASR Part 145, and contains information relating to the following:

- Systems and Elements
- Systems and Elements Health Checks
- Surveillance Currency Guide
- Information Sources.

2 Systems and Elements: AMO

The audit technique involves assessing the documented system, comparing it against the actual system processes. The system is assessed for compliance and sampling conducted as appropriate. The assessment of the system and its risks is achieved by a questioning technique using the four attributes (12 components) of the Management System Model (MSM), see CSM Sections 3.3.3 System attributes – Management System Model and Section 3.3.3.1 – Systems attributes (table).

The CASA description of an AMO consists of three systems and 12 elements.

Table 1: System and Elements

Systems	Elements
	Tooling and Equipment
Aircraft Maintenance	Data and Documents
Afficiant maintenance	Stores and Distribution
	Maintenance Activity
	Process in Practice
	AMO Operations
Administration	Personnel Standards
	Personnel Rostering
	Safety Policy and Objectives
Safety Management	Safety Risk Management
	Safety Assurance
	Safety Promotion

DAMB	Drug & Alcohol education program Drug & Alcohol response program
DAMP	Drug & Alcohol testing program
	Implementation of DAMP

	DG Process & Procedures
Dangerous Goods	DG Records
	DG Training Records

Table 2: Aircraft Maintenance Elements

SYSTEM: Aircraft Maintenance		
ELEMENT: Tooling and Equipment		
This element includes all tooling and equipment held, used, contracted, loaned, or borrowed by the organisation for the purpose of maintaining aircraft or aeronautical products.		
Prompts:		
Availability /Adequacy (dependent upon planned activities)	Disposal	
Identification (traceability, history, correction, and status)	Parts pooling	
Calibration	Training on specialised tooling/equipment	
Storage/protection	Ground support equipment availability and serviceability	
Maintenance	Responsibility for control	
Parts Borrowing /Lending	Review of tool control, monitoring and improvement	
Contracting		
ELEMENT: Data and Documents		
This element includes all technical data, design drawings, regulatory documentation, maintenance systems and quality/procedures manuals used in the course of carrying out aircraft or aeronautical product maintenance.		
Prompts:		
Availability / Adequacy (dependent upon planned activities)	DAMP documentation	
Identification	Borrowing/lending	
Storage	Responsible and accountable	

SYSTEM: Aircraft Maintenance		
Handling	Monitoring and improvement	
ELEMENT: Stores and Distribution		
	and handling of all parts, components, materials, borrowed while carrying out aircraft or aeronautical	
Prompts:		
Purchasing	Borrowing/lending	
Receipt	Dispatch /issue	
Storage	Quarantine/rejection	
Handling	Traceability	
ELEMENT: Maintenance Activity		
This element includes all aircraft and aeronautical product maintenance and may be applied to each maintenance activity separately.		
Prompts:		
Receipt (job/task acceptance)	Housekeeping (work in progress control and cleanliness)	
Task assignment	Dispatch (return to customer)	
Contracting	Organisation structure, duties, and responsibilities	
Inspection	Infrastructure	
Repair/Manufacture In The Course Of Maintenance (MITCOM)	Multiple and temporary site control	
Modification	Activity within Certificate scope	
Certification	Training	
Defect reporting	Computer control	
Defect deferral	Component and aircraft release documentation	
Shift changing	Monitoring and improvement	
ELEMENT: Process in Practice		
This element includes the monitoring and man maintenance while conducting aircraft and aer	nagement of tooling, data and the certification of ronautical product maintenance.	
Prompts:		
Tooling and equipment availability	Calibrated tooling traceability	
Accessing and using approved data	Certifying for stages of maintenance	
Accessing stores and recording of parts	MITCOM process	
Assigning of personnel to tasks	Borrowing tools process	
Internal Audit		

SYSTEM: Aircraft Maintenance	
Training on aircraft and specialized tooling	Licence scope
Human factors issues	SMS Reporting

Table 3: Administration Elements

SYSTEM: Administration

ELEMENT: AMO Operations

This element addresses the systems that ensure the Authorisation holder contains its operations to those authorised by legislation. This is primarily achieved through the use of a properly structured organisation with appropriate communication channels. Appropriate key personnel are a key link in ensuring AMO operations are not only contained but are appropriate controlled. Examples include the Responsible Manager (however named) and Safety Manager (however named).

Prompts:

Appropriate structure	Key personnel
Appropriate numbers of personnel	Facilities
Support staff	Technical staff

ELEMENT: Personnel Standards

AMO authorisation holder is required to establish and maintain an appropriate organisation, with sound and effective management structure that incorporates a safety management system where applicable. The standards of personnel, including third party providers is required to be documented detailing induction training, periodic recurrent training and any required upgrade training. A process for dealing with unsatisfactory performance should also be documented.

Prompts:

Qualifications	Licensing
Recency (if applicable)	Supervision
DAMP education and testing	

ELEMENT: Personnel Rostering

This element plays a significant role in achieving safe operations for it is through scheduling that the authorisation holder ensures that required tasks are carried out with appropriate personnel that have appropriate qualifications, operate in accordance with legislative requirements, certification and have appropriate recency (if applicable) in order to safely conduct the planned task from the start of the duty period until completion. Scheduling should take into consideration fatigue factors associated with long duty days or late-night duty. A roster should, where appropriate, be published and displayed in a prominent position

Prompts:

Roster production	Fatigue issues
Qualifications	Recency
Certification	SMS documentation
Safety accountabilities of managers	DAMP supervision

Table 4: Safety Management Elements

SYSTEM: Safety Management

ELEMENT: Safety Policy and Objectives

This element contains the systems and processes that ensure effective governance to support the safety management system that is in place, including processes for the review and update of the authorisation holder's management and commitment (through Safety Policy, Just Culture and Safety Objectives), the appointment of key personnel, the accountabilities of management, the Emergency Response Plan and SMS documentation.

Prompts:

Safety policy	Key personnel
Just culture	Third party relationships and interactions
Safety objectives	Emergency response plan
Safety accountabilities of managers	SMS documentation

ELEMENT: Safety Risk Management

This element contains the systems and processes to ensure investigation and analysis of the safety risks associated with identified hazards resulting in the implementation of effective safety risk controls.

Prompts:

Hazard identification processes - reactive	Risk assessment and mitigation
Hazard identification processes - proactive	DAMP supervision

ELEMENT: Safety Assurance

This element contains the systems and processes for setting, recording, and evaluating system performance, conformance with regulations and company procedures, a process for conducting internal safety investigations, effectively managing change across the aviation activities conducted and driving continuous improvement of the SMS.

Prompts:

System performance	Management of change	
Assurance	Continuous improvement of SMS	
Internal safety investigation	DAMP supervision	
Internal Audit		

ELEMENT: Safety Promotion

This element contains the systems and processes for ensuring personnel are appropriately trained and are aware of the SMS to a degree commensurate with their positions, safety-critical information is conveyed, explains why particular safety actions are taken and explains why safety procedures are introduced or changed must be evident.

Prompts:

Training and education	Safety communication

SYSTEM: Safety Management	
DAMP education and testing	

Table 5:DAMP Elements

SYSTEM: DAMP

Element: Drug and alcohol education program

This element contains the systems and processes to ensure that personnel have adequate knowledge of the organisation's drug and alcohol policy, testing program, response program, and any support services, by implementation of the drug and alcohol education program.

Prompts:

DAMP policy	Risks associated with alcohol and drug use	
Alcohol and drug testing program	Support and assistance services	
Safety promotion and communication	Method of training delivery	
Recurrency	Training records management	

ELEMENT: Drug and alcohol testing program

This element contains the systems and processes for ensuring that personnel are appropriately tested under the alcohol and drug testing program, and there is a robust system for records management.

Prompts:

Testing Standards	Circumstances for testing
Ceasing SSAA	Records management

ELEMENT: Drug and alcohol response program

This element contains the systems and processes for ensuring there is adequate process that follows the drug and alcohol drug testing program, including an adequate process for determining when personnel may be deemed as fit for duty and returned to SSAA (if applicable).

Prompts:

Medical Review Officer (MRO)	Ceasing SSAA
Intervention program	Return to SSAA

Table 6: Dangerous Goods Elements

SYSTEM: DANGEROUS GOODS (DG)		
ELEMENT: DG Processes and Procedures		
This element contains the systems and processes for ensuring there is adequate process that follows the AMO procedures and legislative requirements for handling and shipping of DG		
Prompts:		
DG Shipping Procedures	Shipping of DG by Air Requirements	
Packing standards and instructions	Technical information (i.e., Safety Data Sheets)	
Classification of DG	Markings and labels	
ELEMENT: DG Records		
This element contains the systems and processes for ensuring there is adequate process that follows the AMO procedures and legislative requirements for maintaining DG records		
Prompts:		
DG transport documentation	Receipt and dispatch records	
ELEMENT: DG Training Records		
This element contains the systems and processes for ensuring there is adequate process that follows the AMO procedures and legislative requirements for maintaining DG Training records.		
Prompts:		
Procedures and legislative requirements	Review DG Training Records	
List of Personnel authorised to ship DG	Management of training recurrency	
Training records		

2.1 Health Check

Health Check mandatory elements are available on the CASA Intranet. Details of the current mandatory elements for each authorisation type are published separately to the CASA website.

3 Surveillance Currency Guide: AMO

Surveillance level	Туре	Elements
Level 1	Systems Audit	Systems, Risks and Compliance
	Health Check	Specific Elements, Risks and Compliance
	Post-authorisation Review	Entry Control Elements
Level 2	Operational Check	E.g., Aircraft inspection, Ramp check

Note: Surveillance intervals are determined by the National Surveillance Selection Process (NSSP). Refer to the NSSP planned surveillance schedule for further information regarding surveillance intervals.

4 Information Sources

The following is a non-exhaustive list of information sources that can be accessed to support the assessment of an authorisation holder:

- surveys
- third-party audits
- regulatory history, findings (Safety Findings and Safety Observations)
- past Surveillance Reports and findings (Safety Findings and Safety Observations)
- EAP information
- Defect Report Service (DRS)
- Regulatory Service activity
- information gathered by the authorisation holder
- external information gathered from industry or other government agencies
- Enforcement action
- past accident/incident history
- risk management plans provided by the authorisation holder.

A large portion of this information is available to the surveillance team and authorisation management team via the Data Warehouse using the BusinessObjects application.

Note: For advice on where and how to access required information refer to CSM Chapter 5 – Information Capture and Access.