

MSTAR 145 AUDIT CHECKLIST

AUDIT REPORT NO		AUDIT START DATE	
AUDIT AREA		AUDIT END DATE	
AUDITOR(S)	1.	AUDITEE(S)	1.
	2.		2.
	3.		3.

PART	DESCRIPTION	CO	MPLI/	ANCE	REMARKS/OBJECTIVE
	DESCRIPTION	Y	Ν	NA	EVIDENCE
1.0 Fac	ility Requirements				
1.1	 Facilities (as appropriate): Protection from the weather elements. Aircraft hangars visit plan. Specialised workshops: 				
	- Access to the hangar.				
	Line Maintenance: - Access to the hangar. - Area for maintenance staff				
1.2	Office accommodation: (e.g. for technical records; quality) - Sufficient room to carry out assigned tasks.				
1.3	Working environment:- Appropriate- Temperature control- Contamination hazard- General lighting & specific lighting- Noise levels- Personal equipment to stop excessive noise				
	 Specific environmental requirement: Appropriate and conform to maintenance data Environment acceptable (T°, moisture, hail, ice, snow, wind, light, dust). 				
1.4	Secure: - Access restricted to authorised personnel				
	 Storage conditions: Must ensure segregation of serviceable (A/C components and material) from unserviceable (A/C components, material, equipment and tools). 				
	Incoming inspection / tagging of parts.				
	Storage facilities: - Aircraft - Components - Equipment - Tools and material; well-ventilated - Manufacturers storage recommendations - Storage racks				
	Conditions of storage: - Manufacturer's instructions followed (e.g. tyres); A/C components should remain packaged				



PART	DESCRIPTION	CO Y		ANCE NA	REMARKS/OBJECTIVE EVIDENCE
2.0 Per	sonnel Requirements				
2.1	Post Holders qualification and requirements:-Accountable Manager-Quality Manager-Base maintenance manager-Line maintenance manager-Workshop manager-Deputisation in the case of lengthy absence of said manager(s)				
2.2	 Production man-hours plan: Availability of man-hour plan Procedure for review of man-hour plan Responsible person to manage the man-hour 				
2.3	 Competence of Personnel Procedure must be established to control the competence of maintenance, management and quality audit personnel. Expertise related to the job function // understanding of the application of human factors and human performance issues. Assessment for Initial human factors training // Human factors continuation training. Initial human factors training syllabus. Initial training on fuel tank safety (CDCCL tasks) Note: Verify & sample records 				
2.4	 NDT (Non-Destructive Test) Personnel carry out NDT must be qualified iaw the European Standard (EN4179) or equivalent standard recognised by DGTA. Specialised Tasks (Non-destructive inspections) Personnel appropriately qualified to official process (e.g. baroscopic inspection) 				
2.5	 Line Maintenance Certifying staff qualified as Cat B1, B2, as appropriate, iaw MSTAR 66 and 145.A.35. When required armament qualified B1 or B2, or. Certifying staff qualified as category A and B2 iaw MSTAR 66 plus 145.A.25 minor scheduled line maintenance and simple defect rectification. Base Maintenance Certifying staff qualified as category C iaw MSTAR 66 and 145.A.35 Certifying staff qualified as category C iaw MSTAR 66 and 145.A.35 Appropriate type rated staff CAT B1 and B2 to support CAT C. Register to be maintained for CAT B1 & B2 support staff. B1 & B2 support staff- Ensure all relevant tasks or inspections have been carried out before the CAT C issues CRS. 				
2.6	been accomplished during base maintenance or work package.				
2.6	Certifying staff of components	I	I	1	



		00		ANCE	REMARKS/OBJECTIVE
PART	DESCRIPTION	Y	N	NA	EVIDENCE
	 Certifying staff authorised based on appropriate competence, training and experience. 	-			
2.7	Specific Circumstances:				
	Repetitive pre-flight AD carries out by the flight crew Sufficient practical training Limited certification authorisation Flight crew license				
	 <u>Aircraft operating away from a supported location</u> Sufficient practical training Limited certification authorisation (commander and/or the flight engineer on the bases of the flight crew license held) – <i>specified in MOE</i> 				
	 <u>Aircraft grounded at a location other than MOB</u> <u>where no appropriate Certifying Staff is available</u> One–off certification authorisation of its employees holding equivalent type authorisations on similar aircraft. One-off certification authorisation to a person conforms with conditions (5 years' experience /) provided there is no organisation appropriately 145 approved. Report to DGTA within 7 days after issuing 				
	such certification authorisation – must be specified in MOE procedures. Any such maintenance that could affect flight safety is re- checked by an appropriately 145 approved organisations.				
3.0 Cer	tifying Staff & Support Staff				
3.1	Adequate knowledge and understanding of relevant A/C, A/C component(s) and organisation procedures (training and examination)				
3.2	Issuance of a certification authorisation to certifying staff in relation to the aircraft maintenance licence MSTAR 66				
3.3	All Certifying staff and support staff are involved in at least 6 months / 2 years period – meaning: has certified and/or carried out maintenance on relevant aircraft or component as specified on certification authorisation				
3.4	<u>Continuous training</u> for certifying staff and support staff in each 2 years period: relevant technology updating, organisation procedures, human factor issues, fuel tank safety, EWIS -Recommended that such training is reviewed at least once in every 2 years period-				
3.5	Programme for the continuous training for certifying staff and support staff + (MOE) procedure to ensure compliance with 145.A.35 (issuing certification authorisation) and MSTAR 66				
3.6	Assessment all prospective Certifying staff for competence, qualification and capability before issue or re-issue of a Part 145 certification authorisation + (MOE) procedure				
3.7	Certification authorisation that clearly specifies the scope and limits of such authorisation				
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		<u> </u>	MPLI/		REMARKS/OBJECTIVE
PART	DESCRIPTION	Y	N		EVIDENCE
3.8	Certification authorisation must be in a style that	•			
	makes its scope clear, where codes are used to				
	define scope, the organisation shall make a code				
	translation readily available				
3.9	Responsibility of the quality system for <u>issuing 145</u>				
	certification authorisations to certifying staff.				
3.10	Retention of record: all certifying staff and support				
	staff with detail of license held under Annex III				
	(Part 66), scope of the certification authorisations,				
	training completed and particulars of staff with				
	limited or one-off certification authorisation - At				
	least 3yr after leaving-				
3.11	Cartificing staff must be previded with a same of				
5.11	Certifying staff must be provided with <u>a copy</u> of their certification authorisation.				
0.40					
3.12	Certifying staff must be able to produce their				
	certification authorisation within 24 hours.				
3.13	The minimum age for certifying staff and support				
	staff is 21 years.				
3.14	Category A aircraft task training carried out by MO				
	145 or MTO 147; Include practical hands on				
	training and theoretical training.				
	Satisfactory completion of training: examination or				
	workplace assessment carried out				
	·····				
3.15	Category B2:				
	Maintenance performed on avionics and electrical				
	systems				
	Electrical and avionics <i>tasks</i> within powerplant and				
	mechanical systems.				
	- Satisfactory completion of the relevant CAT A				
	aircraft task training (practical/theoretical) and				
	6 months of documented practical experience.				
	Demonstrated by an examination or by workplace				
	assessment				
				I	
4.0 Eq	uipment, tools and material				
4.1	Necessary equipment, tools and material				
4.2					
4.2	Control register (special tools / personal tools /				
	alternative tooling / tools rarely needed) and				
4.0	procedures				
4.3	Use of alternative tooling or equipment (iaw				
	procedure)				
4.4	Equipment and tools must be permanently				
	available / case of tool and equipment infrequently				
	used.				
4.5	Sufficient aircraft access equipment and inspection				
	platforms/docking.				
4.6	Where necessary, tools, equipment and particularly			1	
	test equipment to be controlled and calibrated to				
	officially recognised standards.				
4.7					
4./	Labelling system for all tools, equipment and test				
	equipment (due date)		<u> </u>		
4.0					
4.8	Inspection, service or calibration on regular basis iaw the manufacturer instructions				



		CO	MPLI/	ANCE	REMARKS/OBJECTIVE
PART	DESCRIPTION	Y	N	NA	EVIDENCE
4.9	A register of all precision tooling and equipment + record of calibrations and standards used				
5.0 Acc	ceptance of components	<u> </u>	<u> </u>		
5.1	Classification of the components: satisfactory				
	condition (Form 1 or equivalent); unserviceable;				
	unsalvageable (reached their certified life limit or				
	contain a non-repairable defect); standard parts				
	(IPC, maintenance data); material both raw				
	and consumables (certificate of conformity); Appropriately segregated				
5.2	<u>Eligibility</u> of the component prior to installation (modification and / or AD standards / Life limited				
5.3	part)				
5.5	<u><i>Fabrication</i></u> of a restricted range of parts under the scope of a 145 approval – must be specified in MOE				
	procedure- In the course of undergoing work within				
	its own facilities (only for internal use)				
5.4	Components which have reached their certified life limit or contain a non-repairable defect shall be				
	classified as unsalvageable. Ensure that they are				
	disposed in a manner that does not allow them to				
	be returned to service				
	ntenance Data				
6.1	Availability and use applicable up to date				
	maintenance data to perform maintenance including modifications and repairs.				
6.2	Maintenance data: Tech Doc approved by Tech				
	Control/MatMan, including SB, TCTO, AD				
6.3	If found, any inaccurate, incomplete or				
	ambiguous procedures, practices, information				
	or maintenance instructions contained in the				
	maintenance data: recorded and notified to the Tech Control /MatMan				
6.4	The MO must provide a common Workcard or				
	worksheet system throughout the relevant				
	department. Workcards and /or Worksheets system: reference to				
	the maintenance task(s) contained in such				
	maintenance data; Complex maintenance tasks:				
	subdivided into clear stages				
6.5	Electronic dBase: adequate safeguards and a back-				
	up electronic (updated within 24 hours)				
6.6	All applicable maintenance data must be readily				
	available for use by maintenance personnel: in				
6.7	base / line / workshop Data in proximity of the aircraft / component				
	maintenance being performed				
6.8	Computer system / microfilm or microfiche				
	readers/printers (sufficient)				
6.9	Maintenance data is kept up to date: control list /				
	subscription / monitoring of amendment status.				
	Special attention for life limited part				



PART	DESCRIPTION			REMARKS/OBJECTIVE EVIDENCE
6.10	Operator controlled and provided maintenance data; written confirmation // work orders specifying the amendment status // on operator amendment list	YN	NA	EVIDENCE
7.0 Pro	duction Planning			
7.1	System appropriate to the amount and complexity of work to plan the availability of all necessary personnel, tools, equipment, material, maintenance data and facilities to ensure the safe completion of the maintenance work.			
7.2	The production planning function elements: scheduling the maintenance work ahead; during maintenance work, organising maintenance teams and shifts and provide all necessary support			
7.3	The planning of maintenance tasks, and the organisation shifts, must take into account human performance limitations			
7.4	Shift or personnel changeover, relevant information must be adequately communicated between outgoing and incoming personnel.			
7.5	Understand and communicate the important elements of the job or task (Outgoing personnel)			
7.6	Understand and assimilate the information (Incoming personnel)			
7.7	Formalised process for exchanging information between outgoing and incoming persons.			
8.0 Pe	rformance of Maintenance			
8.1	Procedure to ensure that: <u>a general</u> <u>verification is carried out</u> : aircraft or component is clear of all tools, equipment and any extraneous parts or material, all access panels removed have been refitted			
8.2	Procedure to ensure that: an <u>error capturing</u> <u>method</u> is implemented after the performance of any critical maintenance task - Adequate for the work and the disturbance of the system (visual inspection, operational check, rigging check, functional check) - Independent Inspection // Reinspection (only one person is available)			
8.3	 Procedure to ensure that: the <u>risk of multiple</u> <u>errors</u> during maintenance and the <u>risk of</u> <u>errors</u> <u>being repeated in identical</u> <u>maintenance tasks</u> are minimised 1) Plan the performance by different persons of the same task in different systems. 2) Duplicate inspection or reinspection procedure; Prevent 			



		00	MPLI		REMARKS/OBJECTIVE
PART	DESCRIPTION	Y	N	NA	EVIDENCE
	omissions: task or group of tasks				
	should be signed-off after				
	completion // authorised				
	personnel // critical steps to be				
	clearly identified // personnel under supervision				
	under supervision				
9.0 Cei	rtification of Maintenance				
9.1	Certificate of release to service (aircraft //				
	aircraft component) must be issued				
9.2	Appropriately authorised staff (Certifying staff)				
9.3	A CRS must not be issued in case of any non-				
9.4	compliance known that endangers flight safety				
9.4	All maintenance ordered has been properly carried out				
	Task carried out to a fuel system (CDCCL):				
	marking "CDCCL task"				
9.5	Before flight: base and line maintenance, at				
	the completion of any maintenance, A/C Form				
	Contains basic details of maintenance carried				
	out // date // certifying staff identity // signature				
	<pre>// cross-reference to work-package</pre>				
9.6	New defects or incomplete maintenance work				
	shall be brought to attention CAMO:				
	For obtaining agreement to rectify such				
	defects or completing the missing				
	elements of maintenance work order,				
0.7	Deferral/Tech waiver procedure				
9.7	Issued CRS at the completion of any maintenance on A/C component whilst off A/C				
	requires a EMAR/BMAR Form 1 or equivalent				
9.8	When the MO in unable to complete all				
0.0	required maintenance, this must be entered in				
	the CRS				
9.9	When A/C is grounded outside MOB, (MOE)				
	procedure for component temporarily fitted				
	without appropriate release certificate, but				
	with suitable serviceable tag and operator's				
	agreement				
	ccurrence Reporting				
10.1	Acceptable internal occurrence reporting				
	system: collection and evaluation of such				
	reports, including the assessment and extraction of those occurrences to be reported				
	to BMAA				
10.2	All pertinent information and evaluation				
	results; adequate format				
10.3	Reporting to the operator (COA)				
10.4	Reports delay: 72 hours				
11.0 Sa	fety and quality policy, maintenance procedures a	nd q	uality	syste	m
11.1	The MO must establish a safety and quality				
	policy to be included in the MOE				



PART	DESCRIPTION	CO		ANCE	REMARKS/OBJECTIVE
11.2	Maintenance procedures must be	Y	N	NA	EVIDENCE
11.2	established, taking into account human factors and human performance, to ensure good maintenance practices and compliance requirements				
11.3	Include a clear contract - between CAMO and MO – before providing maintenance services				
11.4	Maintenance procedures must cover all aspects of the activity: standards, procedures, personnel				
11.5	Procedure must be established that cover the control of any specialised services (NDT, paint,) and lay down the standards to which the MO intends to work				
11.6	 The MO must establish a <u>quality system</u> that includes: Independent audits to monitor Aircraft/ aircraft component standards and adequacy of procedure to ensure good maintenance practices Product sampling and Procedure - one product on each product line at least every 12 months in accordance with a scheduled plan A report should be raised each time an audit is carried out and must describe what has been checked, the resulting findings against applicable requirements, procedure and products Audit of products / workshop activities / personnel qualification / work card / technical log completion / process exemptions / special process control / finding notified / identified All aspects of 145 compliance and product sampling are checked every 12 months: scheduled internal auditing plan, training of the auditors 				
11.7	 Quality audit feedback system (may not be contracted to outside persons): Findings properly investigated and corrected in a timely manner Reports to relevant departments Information to Quality Department or to auditor after corrective actions Feedback to Managers and Accountable Manager - Meeting at least twice per year Records storage period (at least 2 years) 				



PART	DESCRIPTION	CO			REMARKS/OBJECTIVE EVIDENCE
12.0 M	aintenance Organisation Exposition	<u> </u>	Ν	NA	LYIDLINGL
12.1	 Provide a maintenance organisation exposition (MOE) with the following information: Statement by the Accountable Manager The organisation its safety and quality policy The title(s) and name(s) of Mgt person(s) The duties and responsibilities of Mgt person(s) Organisation chart List of certifying staff, support staff within their scope of approval A general description of manpower resources A general description of the facilities Scope of work – including capability list for components The maintenance organisation exposition amendment procedure Maintenance organisation's procedure and quality system List of subcontracted organisations, line 				
12.2	stations and contracted organisation may be kept as separate documents (soft copy) MOE and subsequent changes must be				
	approved by DGTA				
12.3	Minor changes may be approved through a MOE procedure				
	ivileges of the organisation	1			
13.1	Maintain any A/C or A/C component: locations identified in approval certificate // MOE				
13.2	Arrange for maintenance at another MO: subcontracting under the quality system of the AMO				
13.3	 Procedure for the control of subcontractors: 1. Pre-audit 2. Record of audit 3. Corrective action follows up plan 4. Know when subcontractor is being use 				
13.4	Maintain any A/C or A/C component: unserviceability of the A/C or occasional line maintenance (MOE procedure)				



		COMPLIANCE	REMARKS/OBJECTIVE
PART	DESCRIPTION	Y N NA	EVIDENCE
13.5	Maintain any A/C or A/C component: Locations identified as a line maintenance location (scope of work and list in MOE)		
14.0 Pr	ivileges of the organisation		
14.1	Maintain an A/C or A/C component: locations identified as a line maintenance location (Scope of work and list in MOE)		
15.0 C	hanges to the organisation		
15.1	 The MO must notify any of the following changes: The name of the organisation The main location of the organisation Additional locations of the organisation Additional locations of the organisation The accountable manager Any of the persons nominated point 145.A.30(b) The facilities, equipment, tools, material, etc. MO procedures Approved scope of work Certifying staff and airworthiness review staff Notification to the authority Changes to capability lists controlled and recorded 		
40.0.0			
	ontinued validity		
16.1	The approval (3 years approval) remains valid subject to: 1) the maintenance organisation remains in compliance with MSTAR 145; 2) the MSTAR being granted access to the 145 MO; the MOA certificate not being surrendered or revoked		
16.2	Upon surrender or revocation, the approval shall be returned to the DGTA		
17.0 Fi	ndings (N/A for units)		
17.1	Level 1 : any significant non-compliance with MSTAR 145 requirements which lowers the safety standard and hazards seriously the flight safety		
17.2	Level 2 : any non-compliance with MSTAR 145 requirements which could lower the safety standard and hazard the flight safety.		
17.3	After receipt of findings, the MO shall: 1) define a corrective action plan; demonstrate corrective action to the satisfaction of the DGTA within a period agreed with the DGTA		



NOTES / REMARKS:



INSTRUCTION FOR COMPLETING GAM/Q-008B - MSTAR 145 AUDIT CHECKLIST

No.	Description	Instruction
1.	Audit Report No.	State the audit report no. E.g. IAR-2024/077
2.	Audit Start Date	State Audit start date.
3.	Audit Area	State the audit area. E.g. APMM AS365N3 (Tools & Equipment)
4.	Audit End Date	State audit end date.
5.	Auditor(s)	Fill up on the auditor(s) name.
6.	Auditee(s)	Fill up the auditee(s) name.
7.	Compliance	Tick compliance status.
8.	Remarks/Objective Evidence	Enter remarks/objectives evidence.
9.	Notes/Remarks	Write notes/remarks during the audit.