



Online Course Administration

- · Welcome / course intro
- · Introductions / comms check
 - Name, organisation, role, experience, aim
- · Emergency brief
- Style guided discussion
- Questions
- GovTeams etiquette
- Terminology (acronym bingo)
- · Feedback methods
- Attendance



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Time	Activity	
0830 To 0930	●Introduction •DASA Revision •DASP Structure •Origins of DASR •Where does DASR 145 fit	
0945 To 1100	DASR 145- The Regulations	
1115 To 1230	DASR 145- The Regulations	



Course Aim and Learning Outcomes

To provide students with detailed knowledge of maintenance concepts, and an overview of the DASR 145 regulations and their implementation.

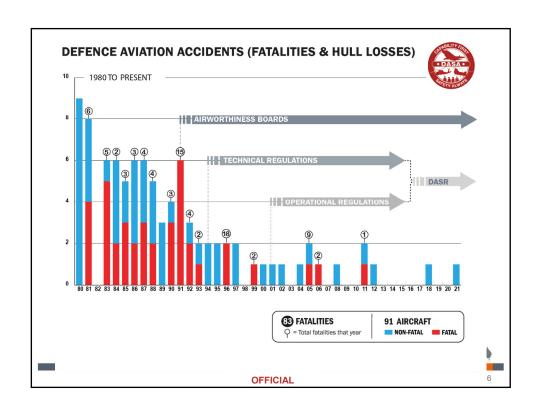
Learning Outcomes:

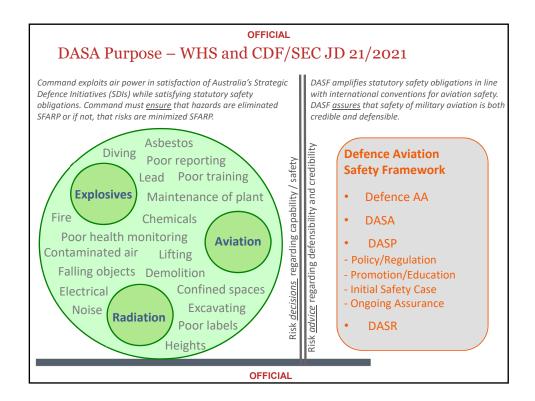
- Describe the purpose of DASR 145 Approved Maintenance Organisations (AMO).
- Describe the management requirements of the Maintenance Organisation Approval.
- · Describe the requirements to form an AMO.
- Explain the regulated functions of the AMO.
- Displays a positive attitude towards learning and engages actively during the course.

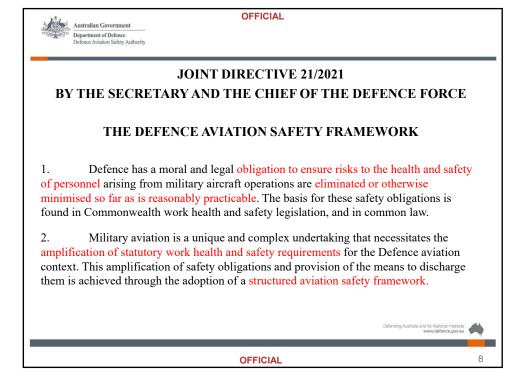


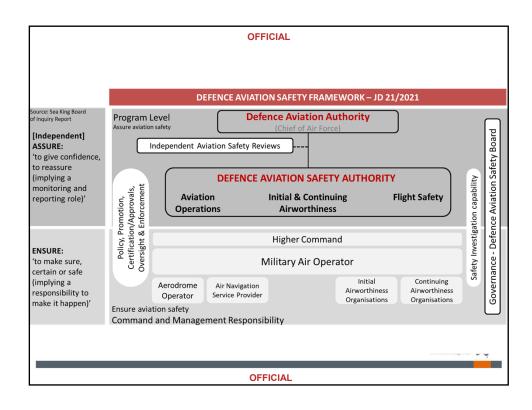
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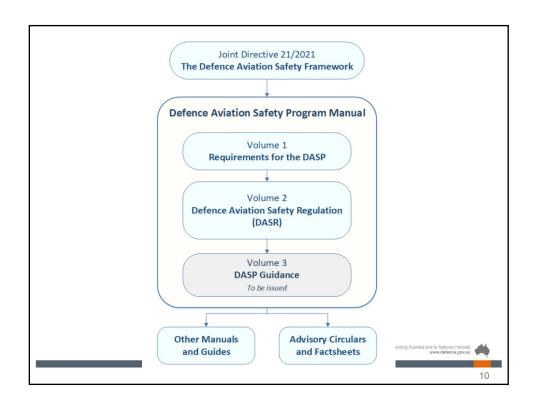














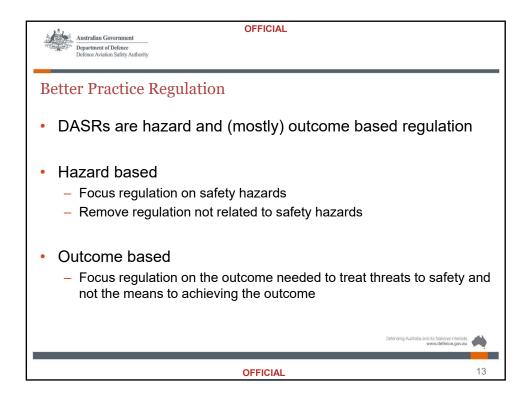


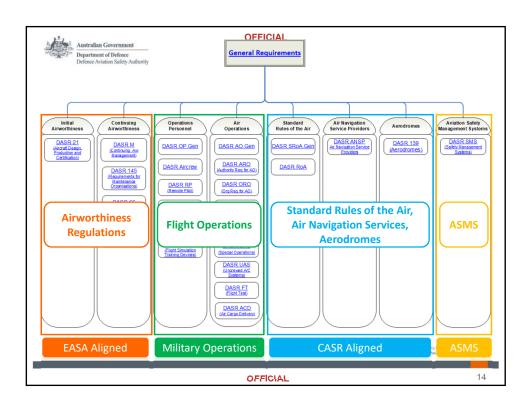
Defence Aviation Safety Regulations (DASR)

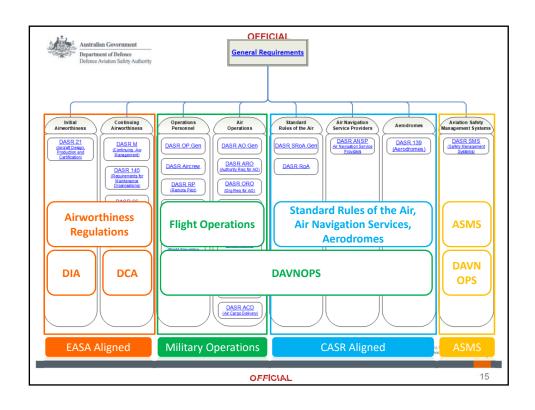
- Airworthiness DASRs are based on European Military Airworthiness Requirements (EMAR), derived from ICAO based EASA airworthiness regulations:
 - Credible and defensible aviation safety framework
 - Common part and numbering system to EMAR
 - Any unique Australian requirements are in green text
 - AMC is 'an' acceptable means of compliance not the only solution
 - GM is non-binding explanatory and interpretation material
- For DASR queries or to recommend changes to DASR:
 - Contact your Quality Management System in the first instance
 - Liaise with DASA Desk Officer
 - Use DASR Query Form or DASR Change Proposal Form www.defence.gov.au

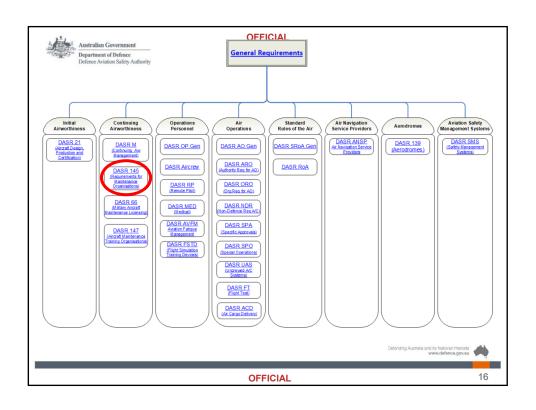


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Airworthiness Definition

DASR (and EMAR) definition

The ability of an aircraft, or other airborne equipment or system, to operate in flight and on ground without significant hazard to aircrew, ground-crew, passengers (where relevant) or to other third parties.

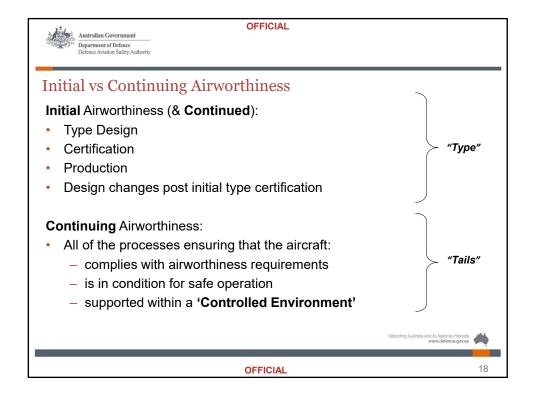
Consistent with EASA use and ICAO definition of "Airworthy"

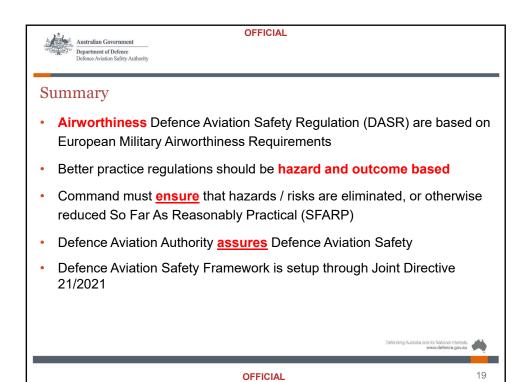
The status of an aircraft, engine, propeller or part when it conforms to its approved design and is in a condition for safe operation

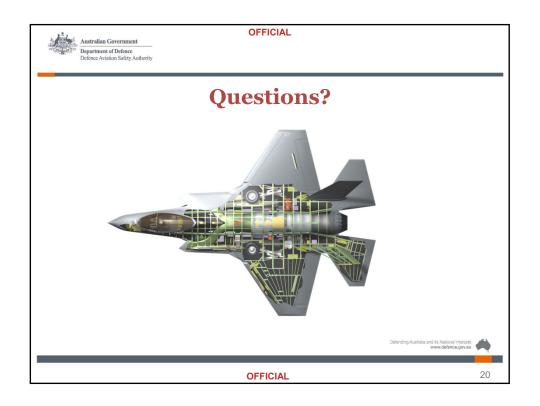
"Focus on the Air Vehicle"

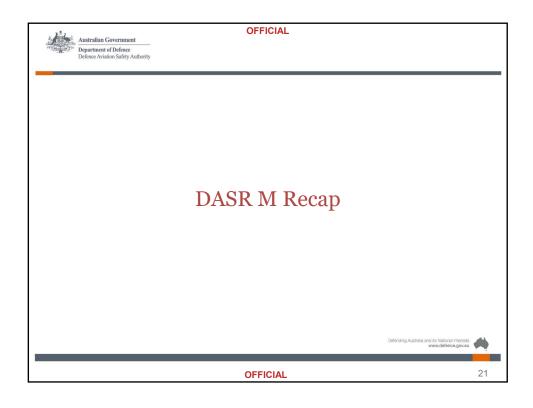


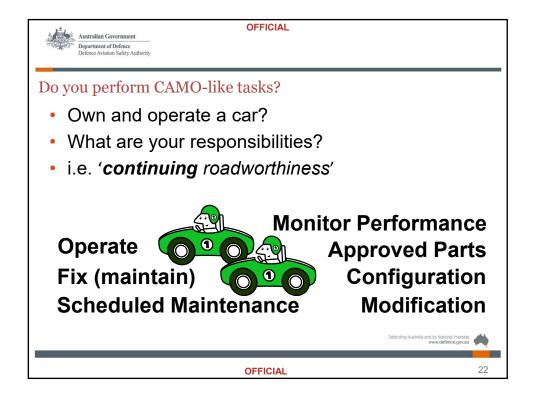


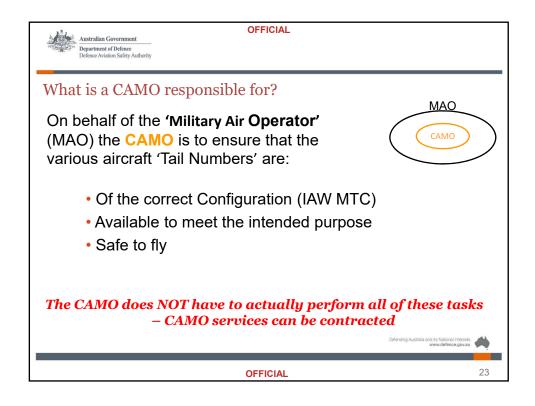


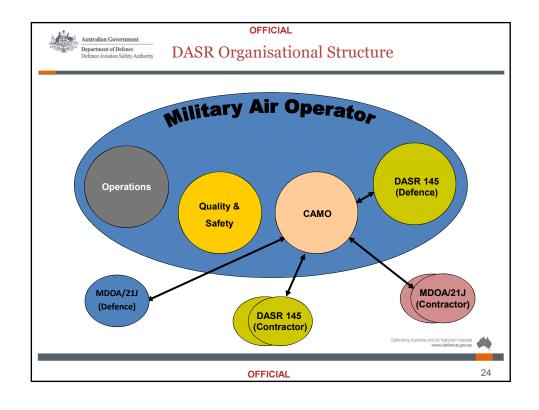


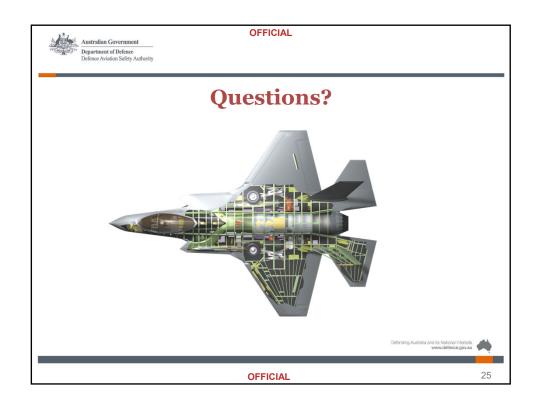




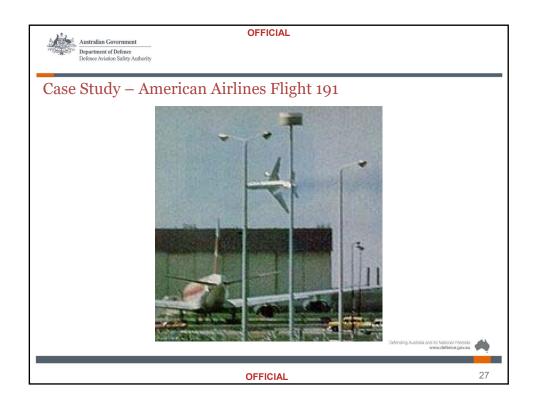
















Why is DASR 145 Required?

- M.A.201: The Operating Organisation is accountable for the continuing airworthiness of an aircraft and shall ensure that no flight takes place unless:
 - the aircraft is maintained in an airworthy condition;
 - _ ...
 - **–** ...
 - Maintenance of military aircraft, and components thereof shall be carried out by a DASR 145 AMO, or equivalent



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DASR 145 Structure

- 145.A.10 Scope
- 145.A.15 Application
- 145.A.20 Terms of approval
- 145.A.25 Facility requirements
- 145.A.30 Personnel requirements
- 145.A.35 Certifying staff and support staff
- 145.A.40 Equipment, tools and material
- 145.A.42 Acceptance of components
- 145.A.45 Maintenance data
- 145.A.47 Maintenance planning
- 145.A.48 Performance of maintenance
- 145.A.50 Certification of maintenance
- 145.A.55 Maintenance records
- 145.A.60 Occurrence reporting
- 145.A.65 Safety and quality policy, maintenance procedures, quality system and Safety Management System
- 145.A.70 Maintenance Organisation Exposition (MOE)
- 145.A.75 Privileges of the AMO
- 145.A.80 Limitations on the AMO
- 145.A.85 Changes to the AMO
- 145.A.90 Continued validity of approval
- 145.A.95 AMO Findings by the NMAA





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145.A.10 - Scope

 Establishes the requirements to be met by a maintenance organisation to qualify for the issue or continuation of an approval for the maintenance of aircraft and components

145.A.15 - Application

 For the issue or change of an approval utilising Form 2.
 145.A.85 identifies what requirements define the submission of a Form 2.



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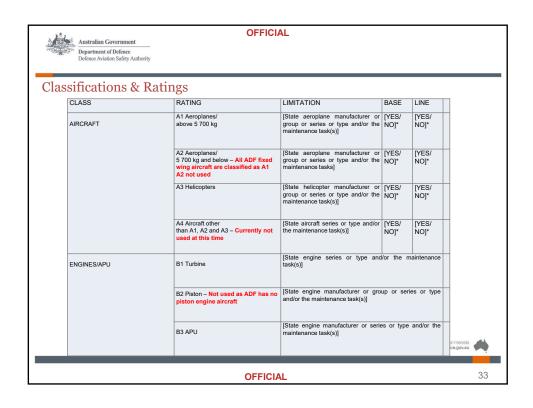
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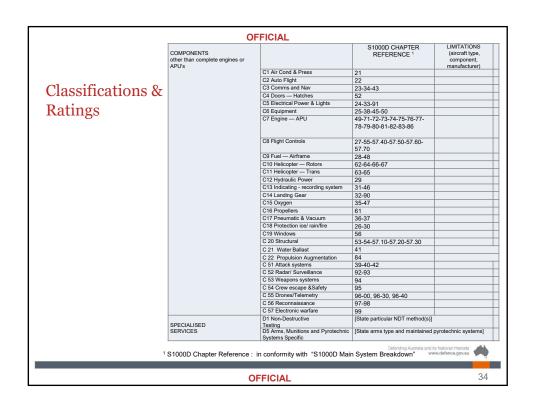
145.A.20 Terms of approval (Scope of Work)

- The Scope of Work will be shown in the organisation's Approval Certificate and is consistent with the Maintenance Organisation Exposition (MOE)
 - The purpose of the Maintenance Organisation Exposition (MOE) is to detail the processes and procedures of the organisation.
- The DASR use a Classification and Rating system (DASR 145.A.20, Appendix II) grouped into:
 - A Aircraft (and any components fitted to the aircraft)
 - B Uninstalled Engines/APUs
 - C Uninstalled Components (excluding engines/APUs)
 - D Specialist Services (NDT and Munitions functions)



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Line Maintenance

AMC 145.A.10 - Scope

- Line maintenance should be understood as any maintenance that is carried out before flight to ensure that the aircraft is fit for the intended flight. Line maintenance may include:
 - Trouble shooting.
 - Defect rectification.
 - Component replacement with use of external test equipment if required.
 Component replacement may include components such as engines and propellers/rotors.
 - Scheduled maintenance and/or checks including visual inspections that will detect obvious unsatisfactory conditions/discrepancies but do not require extensive in depth inspection. It may also include internal structure, systems and power plant items which are visible through quick opening access panels/doors.
 - Minor repairs and modifications which do not require extensive disassembly and can be accomplished by simple means.



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Line Maintenance

Your Maintenance Organisation Exposition will list the maintenance activities classed as Line Maintenance

Base Maintenance

Everything else*

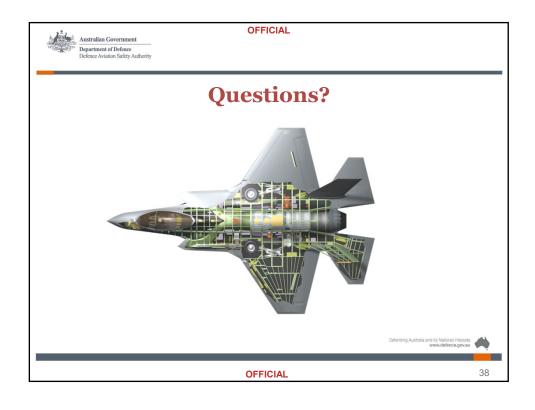
If it's not in the MOE's list of Line maintenance activities, then it's Base maintenance

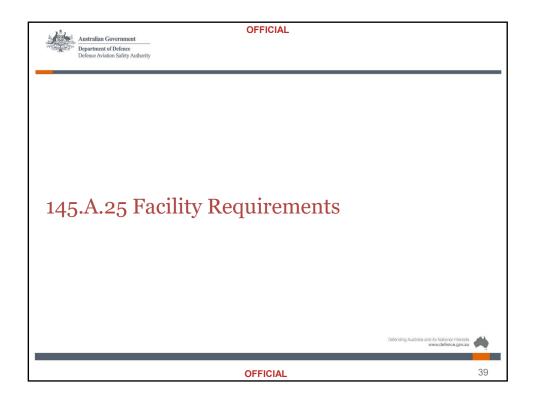
* Component maintenance excluded.

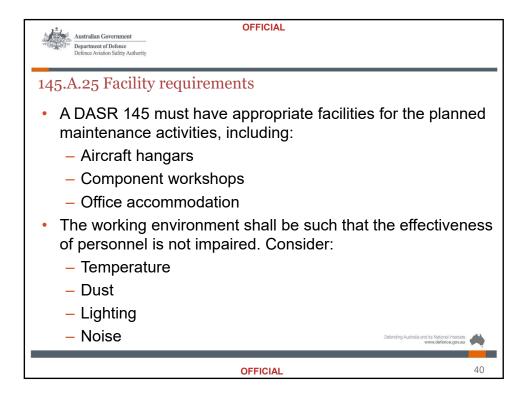


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145.A.25 Facility requirements (cont.)

- Storage for components, equipment, tools and materials
 - Segregation between serviceable and unserviceable
 - Storage conditions meet manufacturer's requirements
 - Restricted access to authorised personnel
- Hangar visit plan (for aircraft)
 - Hangar availability for planned maintenance
 - Where not owned, proof of tenancy

Military operational needs (deployment etc.) must be accounted for in the MOE.



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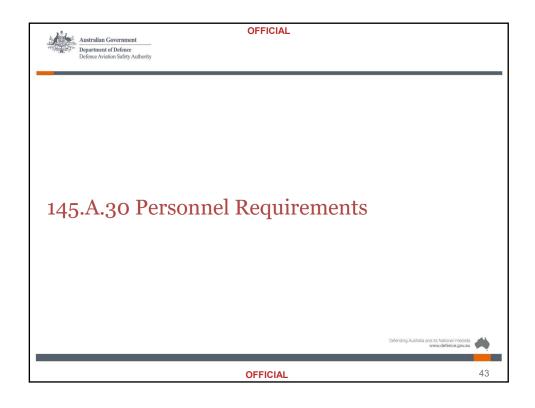
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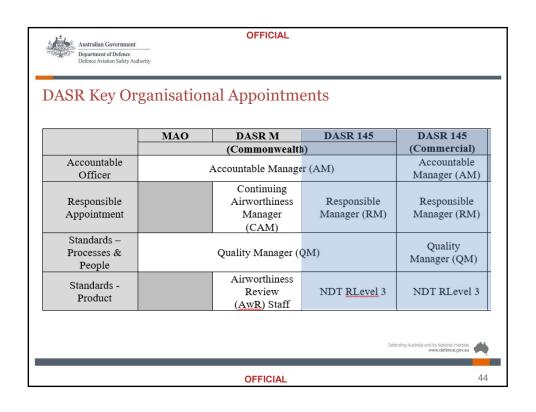
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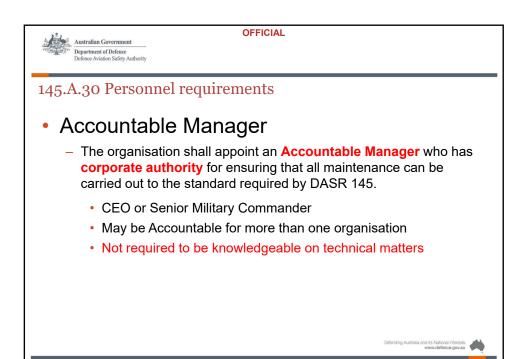
Swiss Engineers changing engine on their Boeing 777-300ER in sub freezing temperature in Iqaluit, Canada, while GE technicians placed a heated tent over the engine to enable them to work on it in outside temperatures sometimes lower than -30C (-22F).

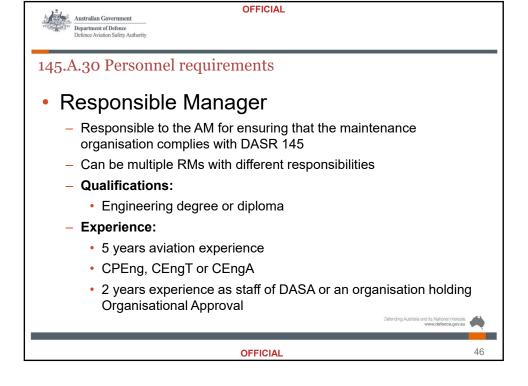


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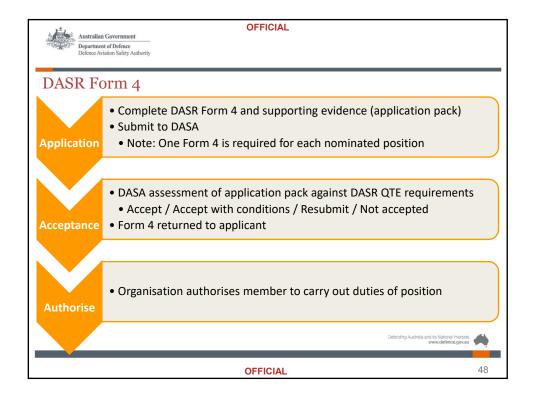


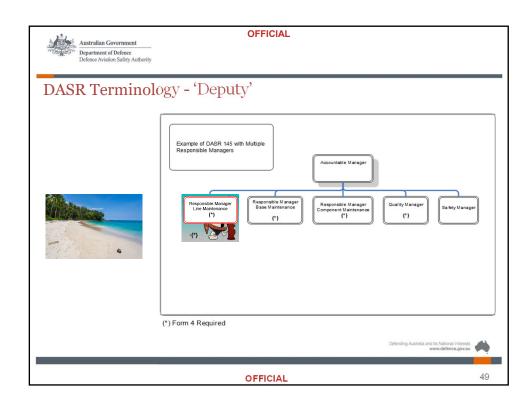
145.A.30 Personnel requirements

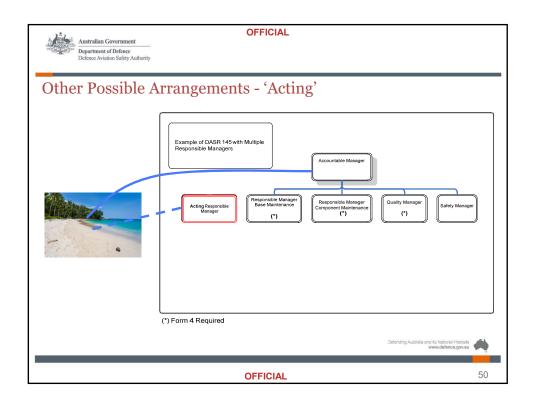
Quality Manager

- Responsible to the AM for monitoring the quality system, including the associated feedback system
- Direct access to the AM
- May be QM for MAO, CAMO and MO.
- Qualifications:
 - · Diploma of Quality Auditing (or equivalent)
- Experience:
 - 5 years aviation experience
 - · 2 years experience as staff of DASA or an organisation holding Organisational Approval
 - 3 years experience in aviation quality management











145.A.30 Personnel requirements

Maintenance Person-Hour Plans

- The maintenance person-hour plan should show that there is sufficient staff to plan, perform, supervise, inspect and quality monitor the organisation.
 - At least 50% should be directly employed by the organisation
 - Reviewed every 3 months
 - Reported to AM/QM where there is 25% shortfall
- When staff availability is less than planned, MO shall reassess work intended to be carried out.



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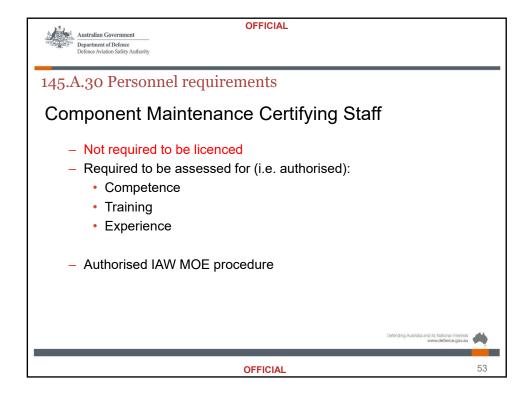
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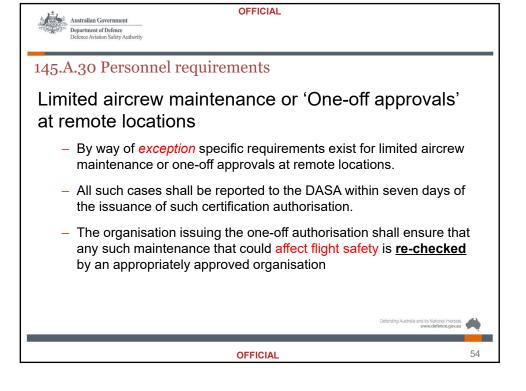
145.A.30 Personnel requirements

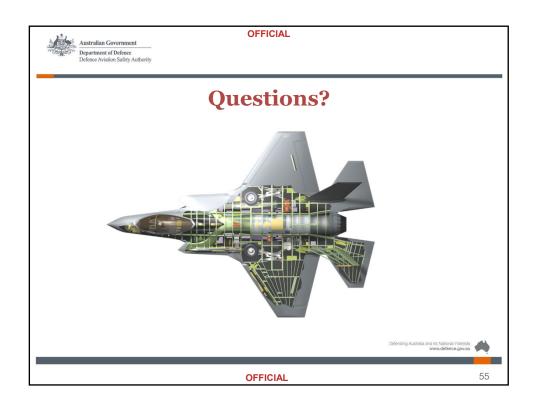
- Specialised Services
 - If authorised, specialised services staff are not required to be DASR 66 licence holders to perform task sign-off (note: this is not a CRS).
 - Personnel who carry out any specialised services shall be appropriately qualified in accordance with officially recognised Standards.
- Non-Destructive Testing (NDT)
 - NDT personnel will be qualified in accordance with the European or equivalent Standard recognised by the DASA.
 - NDT Responsible Level III requires a Form 4.



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145.A.35 Certifying staff and support staff

Certifying Staff are:

- **Licenced** by the Authority
- Authorised by DASR 145 Maintenance Organisation
 - Ensure MAML holder has an adequate understanding of aircraft, components and procedures
 - Assess MAML holder's competence, qualification and capability to certify maintenance IAW MOE
- Authorisation cannot exceed MAML scope
- Minimum age for certifying staff = 21y.o.
- For more information, refer to DASR 66 Practitioner Course.



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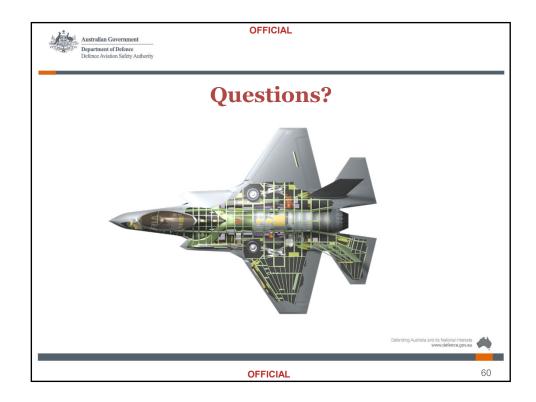
145.A.35 Certifying staff and support staff

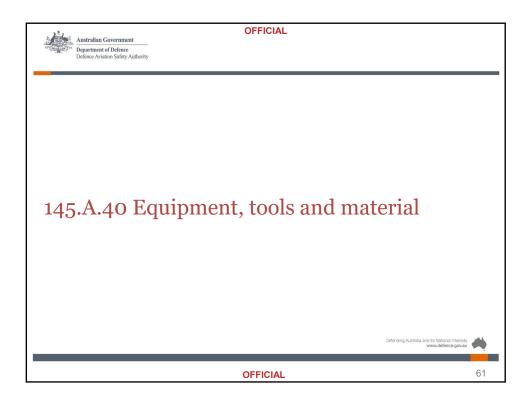
Ongoing requirements

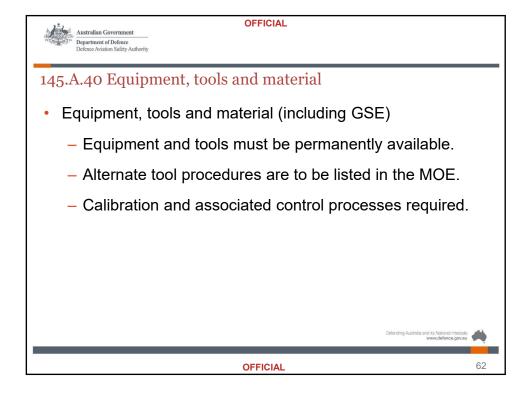
- · Six months of "actual relevant maintenance" in a two year period
- Continuation training programme
 - CT should include technical, procedural and human factors content
- · Maintain records for all certifying staff
 - Details of any MAML held under DASR 66 or national equivalent requirement
 - All relevant training completed
 - The scope of the certification authorisations issued
 - Particulars of staff with limited or one-off certification authorisations.



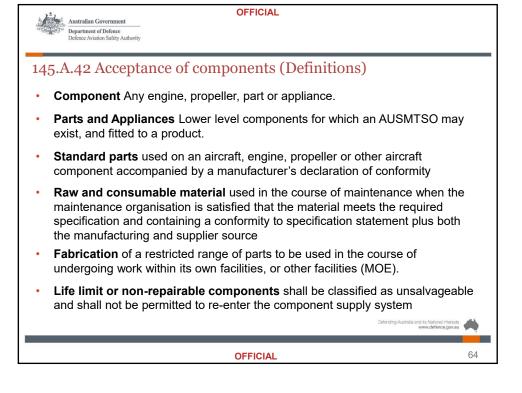
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145.A.42 Acceptance of components

- All components classified and segregated into:
 - Satisfactory condition, DASR Form 1 (or equivalent), IAW Identification of Products, Parts and Appliances (Part 21 Subpart Q)
 - Unserviceable (including unsalvageable) components:
 - expiry of the service life limit
 - non-compliance with the applicable ADs
 - absence of the necessary information (to determine the airworthiness status or eligibility for installation)
 - evidence of defects or malfunctions
 - involvement in an incident or accident



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145.A.42 Acceptance of components

- Unsalvageable components have reached their certified life limit or contain a non-repairable defect. A maintenance organisation in consultation with the CAMO/Operating Organisation shall, in the case of unsalvageable components:
 - Retain such components in a secure location under the control of the maintenance organisation until a decision is made on the future status of such component, or
 - Arrange for the components to be mutilated in a manner that
 ensures they are beyond economic salvage or repair before
 relinquishing responsibility for such components. By way of
 exception, a CAMO/Operating Organisation may transfer
 responsibility of components classified as unsalvageable to an
 organisation for training or research without mutilation.



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145.A.42 Acceptance of components (Eligibility for fitment)

- A component is eligible to be fitted to a type-certified product, or another part or appliance if:
 - the fitting of the component is permitted by the approved design for the product, part or appliance of the higher assembly;
 - the component is in a serviceable condition for safe operation; and
 - the component has been appropriately released or returned to service.



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Americal Government
Defence Nation Solidy Authority

Advisory Circular 008/2018

Available on the DASA website:
https://dasa.defence.gov.au/pg
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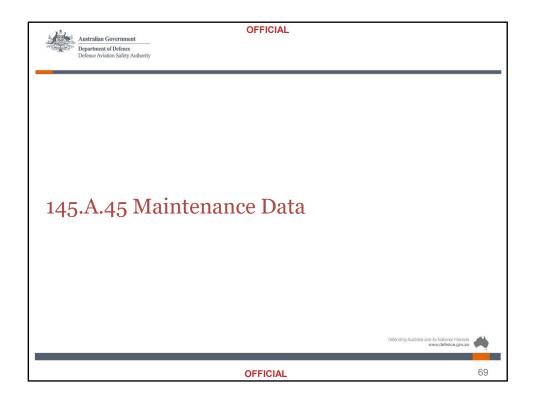
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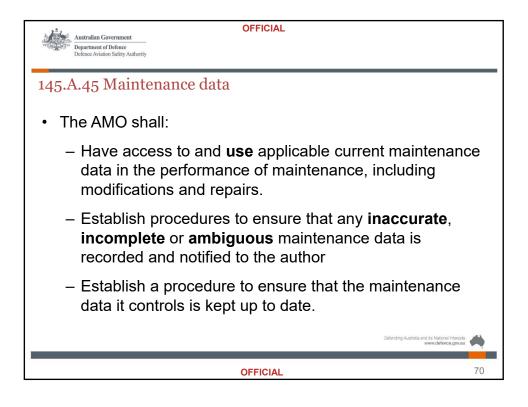
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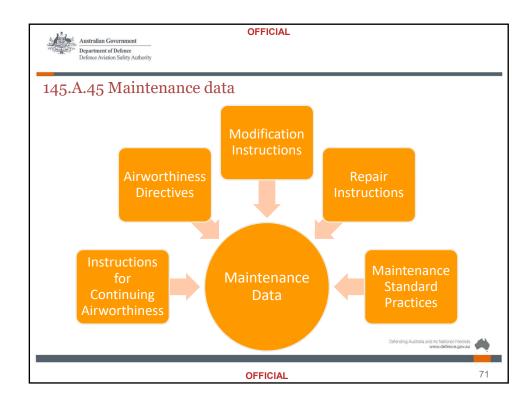
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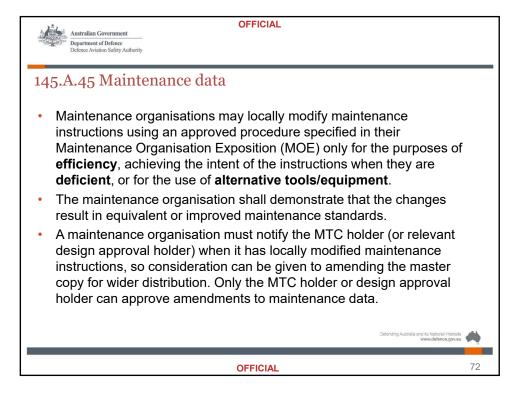
ACCEPTANCE OF AIRCRAFT COMPONENTS

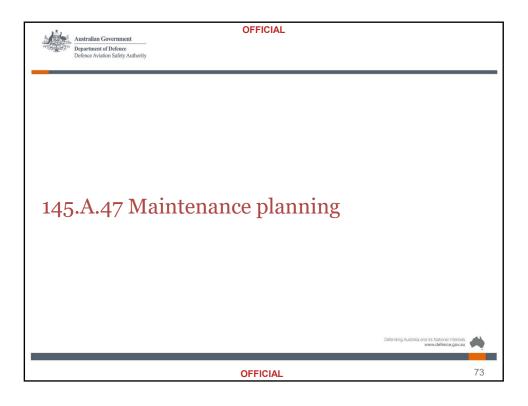
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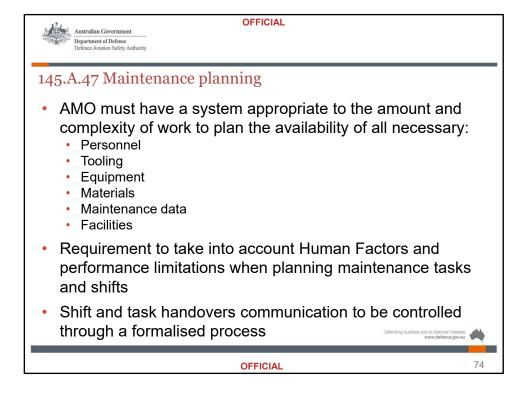


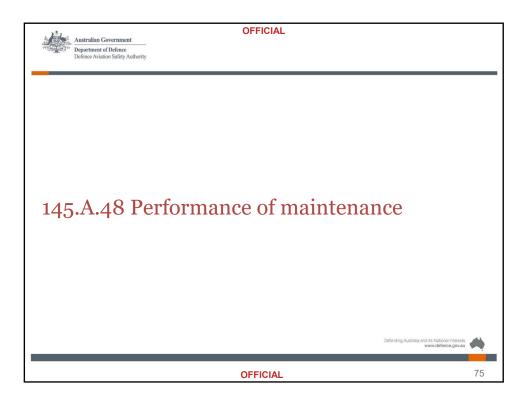


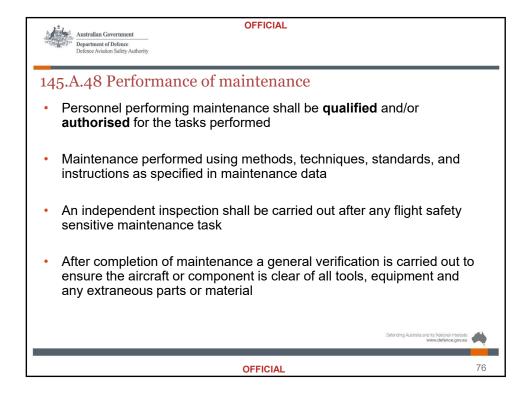


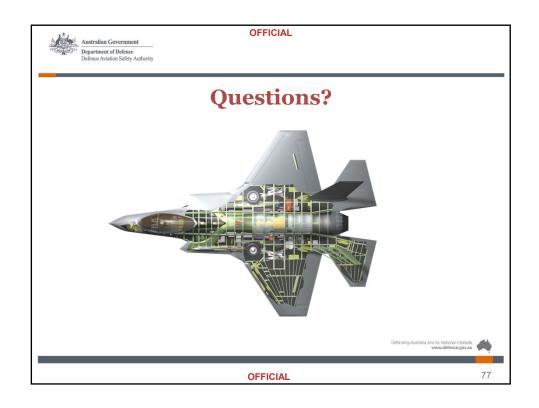




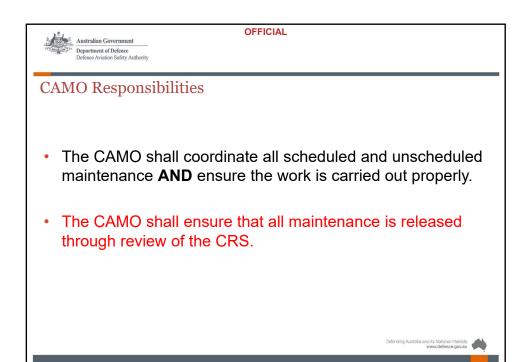


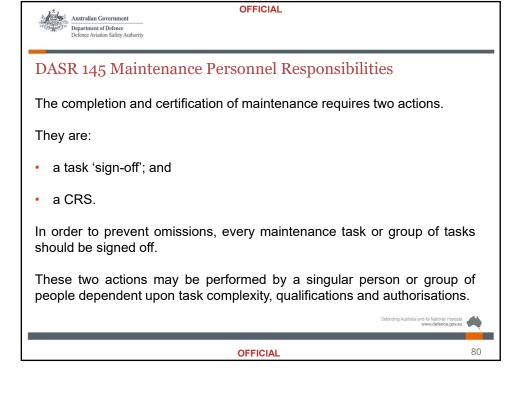














Task Sign-Off – What?

- It is a statement,
- Signed by an appropriately authorised and competent person, or an appropriately authorised and competent MAML holder, that,
- The maintenance task has been completed, to the standard required, IAW the maintenance data.

Note: Task sign-off can only be accomplished when:

- It is within the scope of the persons authorisation,
- Which is dependent on their QTE, and
- IAW a procedure in the MOE.





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Department of Defence Defence Aviation Safety Authorit

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Certificate of Release to Service (CRS) - What?

The CRS is an attestation made by authorised Certifying Staff that:

- All maintenance ordered/tasked has been properly carried out, IAW maintenance data and the MOE, and
- There are no non-compliances which are known to affect flight safety.

Achieved through:

- Oversight and management of the maintenance, and
- 2. Assessment of the flight safety impact of the completed maintenance.

There are two types of CRS:

- · A CRS for Aircraft, and
- A CRS for Components (Authorised Release Certificate/Form 1)





Certificate of Release to Service (CRS) – Who?

Line Maintenance

Category A, B1 or B2 MAML holder

Base Maintenance

· Category C MAML holder

Component Workshop

- Authorised/Qualified competent personnel
- Does not require a MAML

Structures

Interim Military Maintenance Authority (iMMA) holder (exp. Dec 2023)



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Certificate of Release to Service (CRS) - Aircraft

The aircraft cannot be released to service until there is a CRS(s) covering all required maintenance, which could be:

- any maintenance task.
- · any combination of maintenance tasks.
- any maintenance event.

Different combinations of CRS:

- Several CRS are issued, each one of them covering a different single maintenance task.
- Several CRS are issued, each one of them covering a different group of maintenance tasks.
- A single CRS is issued covering all the maintenance included in a maintenance event.



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Certificate of Release to Service (CRS) - Aircraft

The maintenance organisation must have procedures to:

- Ensure that all maintenance is certified
- Report new defects to the CAMO
- Enable management of incomplete maintenance/deferred defects on the basis that:
 - the CAMO and DASR 145 have a procedure to manage the incomplete maintenance/deferred defect
 - A CRS should not be issued when there is incomplete maintenance/deferred defect
- **Exception for Deferred Defects**





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Certificate of Release to Service (CRS) - Aircraft

- Exception (DASR 145.A.50(f)) when using components without appropriate certification
 - Enable the temporary fitting an aircraft component without appropriate release certificate (if required)





Certificate of Release to Service (CRS) - Components

References: DASR 145.A.50(d), M.A.802

- An Authorised Release Certificate (Form 1 or equivalent) is for return to service of component or aeronautical product (engine, propeller, APU)
- Issued for new and/or repaired components
- All components must have a valid Authorised Release Certificate before fitment to an aircraft
- Authorised Release Certificates are retained and form part of the continuing airworthiness record system
- Components without an Authorised Release Certificate or acceptable alternate, should be considered as unserviceable
- Component Certifying Staff are not required to be Licenced



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Authorised Release Certificate Raised for Components that have been Manufactured (Block 13a) DEFENCE AVIATION SAFETY AUTHORITY DASR Form 1 Australian Government Department of Defence AUTHORISED RELEASE CERTIFICATE 5. Work Order/Contract/Invoice 6. Item 7. Description 8. Part Number 10. Serial Number 11. Status/Work 12 Remarks 13a. Certifies that the items identified above were manufactured in conformity to 14a. ☐ DASR 145.A.50 Release to Service ☐ Other regulation specified in Block 12 Certification Statement approved design data and are in a condition for safe operation espect to that work the items are cons dered ready for release to service 13b. Authorised Signature (Electronic signature on file) 13d. Name 13e. Date (dd/mm/yyyy) 14e. Date (dd/mm/yyyy) 88 **OFFICIAL**

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Authorised Release Certificate						
Raised for components following Completion of Maintenance (block 14a)						
	AVIATION SAFETY AUTHOR				DASR Form 1	
1. Approving NMAA Australian Government Department of Defence		AUTHORISED RELEASE CERTIFICATE			3. Form Tracking Number:	
Approved Organisation Name and Address:				5. Work Order/Contract/Invoice		
6. Item	7. Description	8. Part Number	9. Qty	10. Serial Number	11. Status/Work	
12 Remarks						
				DASR 145.A.50 Release	to Service Other regulation specified in Block 12	
☐ approved design data and are in a condition for safe operation ☐ non-approved design data specified in Block 12				Certifies that unless otherwise specified in Block 12, the work identified in Block 11 and described in Block 12, was accomplished in accordance with DASR 145 and in respect to that work the items are considered ready for release to service.		
13b. Authorised Signature		13c. Approval/Authorisation Number		uthorised Signature Electronic signature on file)	14c.Approval/Authorisation Number	
13d. Name		13e. Date (dd/mm/yyyy)	14d. Name		14e. Date (dd/mm/yyyy)	
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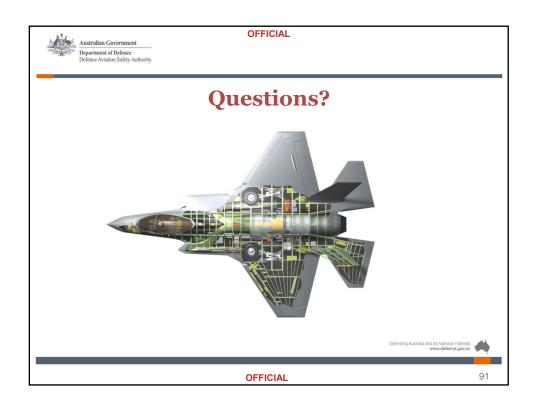
Summary

- DASR Completion of maintenance requires two actions:
 - · A task 'sign-off'
 - CRS
- Any reference to 'Certification' in DASR M, 145 and 66 only refers to CRS
- Line Maintenance A / B1 / B2 Category MAML holder
- Base Maintenance C Category MAML holder
- Component Maintenance Qualified and authorised personnel (no MAML required)
- A CRS shall be issued before flight at the completion of maintenance

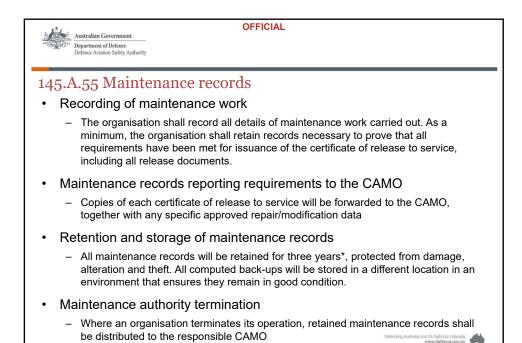
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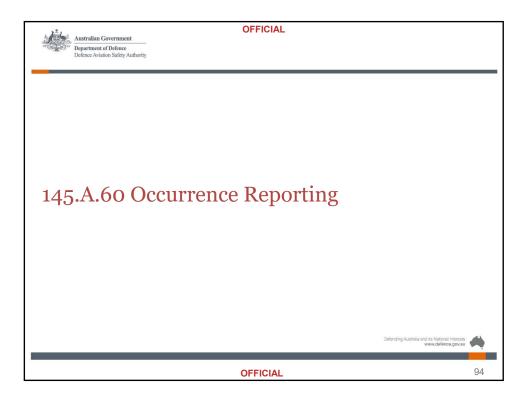
• Refer to AC 005/2020 for more information













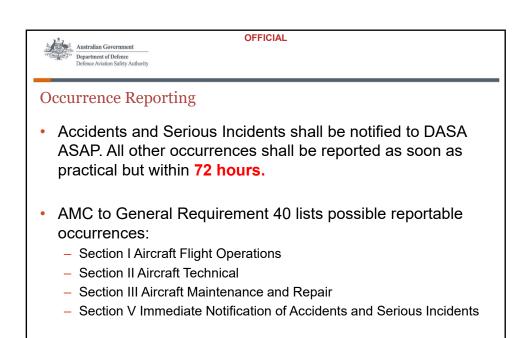


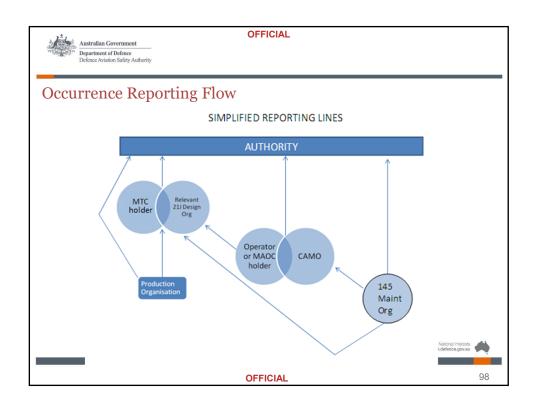
Occurrence Reporting

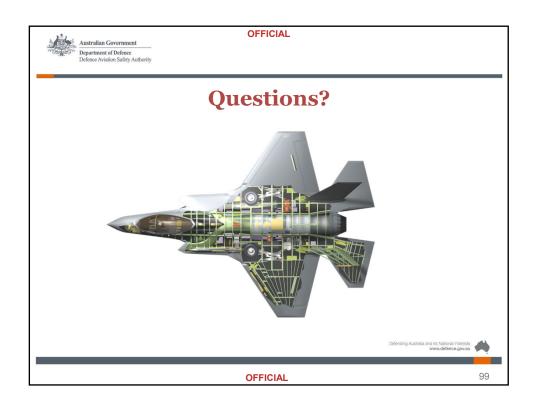
- The DASR 145 is required to report to DASA any condition which endangers flight safety or may result in an unsafe condition.
 - DASR 145 will typically inform the CAMO of occurrences
 - The report can be made on a **DASR Form 44** or in a manner as described in the MOE
- The objectives of occurrence reporting are:
 - To enable assessment of safety implications, including what happened, why it happened and what could prevent recurrence
 - To ensure knowledge of occurrences is disseminated
 - To complement existing systems and identify where controls have failed

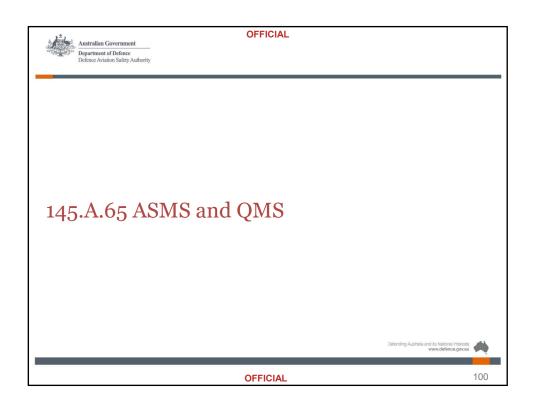


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145.A.65 Safety and quality policy, maintenance procedures, quality system and safety management system

- The maintenance organisation shall establish a safety and quality policy for the organisation to be included in the MOE
 - Policy should include a statement committing the AMO to recognise safety as a prime consideration at all times, encourage open reporting and compliance with procedures.
- The maintenance organisation shall establish procedures to ensure
 - Risk of multiple errors during maintenance being repeated in identical maintenance tasks minimised
 - Damage is assessed and modifications and repairs are carried out using data specified in M.A.304



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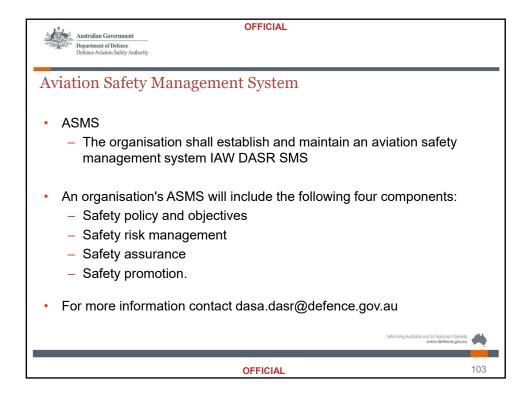
Quality Management System

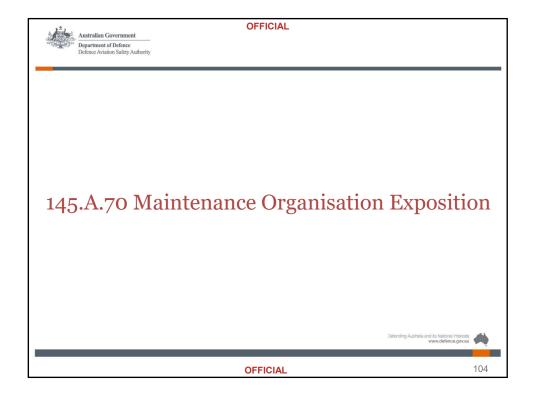
Reference: 145.A.65(c)-(d)

- The AMO shall establish a QMS that includes:
 - Independent audits in order to monitor compliance with required aircraft/aircraft component standards and adequacy of the procedures to ensure that such procedures invoke good maintenance practices and airworthy aircraft/aircraft components
 - A quality feedback reporting system to the Accountable Manager that ensures proper and timely corrective action is taken following audits
- The AMO shall ensure that its personnel have access to quality system documentation and are knowledgeable of procedures relevant to their function.



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145.A.70 Maintenance Organisation Exposition (MOE)

- The MOE is the document or documents that defines the scope of work for how the organisation intends to comply with DASR 145.
 - MOE is approved by DASA
- There can be more than one acceptable format for a MOE.
- DASR 145.A.70(a) contains the minimum requirements of the information that makes up a MOE.

Have you seen your organisation's MOE?





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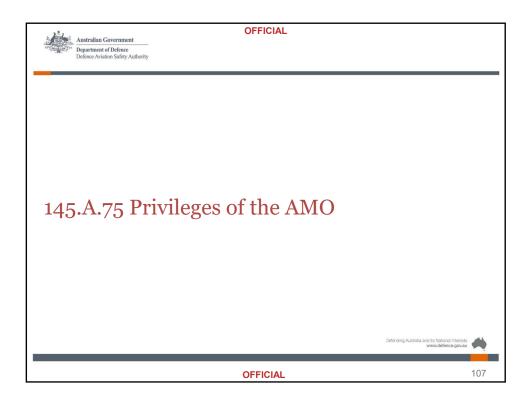
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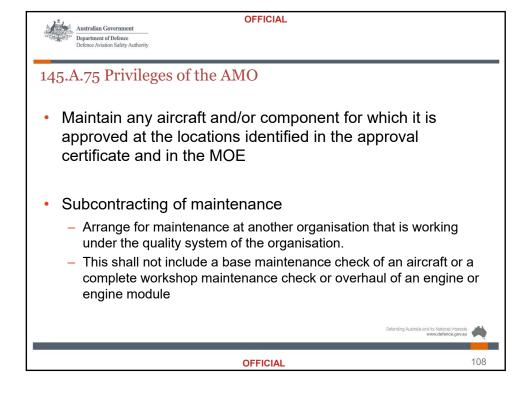
145.A.70 Maintenance Organisation Exposition (MOE)

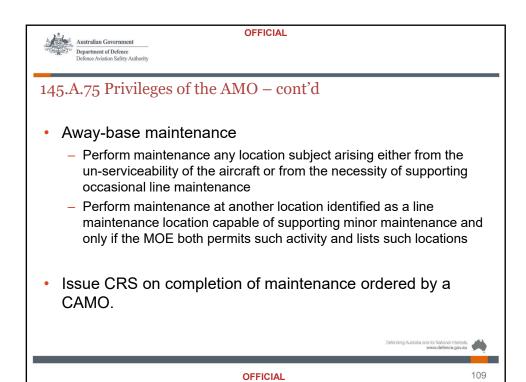
- The MOE and its amendments shall be approved by DASA.
- Minor amendments may be approved through an indirect approval procedure
 - Indirect approval procedure defines the scope and procedure used for minor amendments.
- MOE Tips:
 - Write the MOE such that new personnel can easily understand how the AMO works
 - Before making changes, consider 'WHAT' the DASR outcome is,
 'HOW' you plan to comply and 'WHO' is responsible
 - Make it a useful document for your organisation.

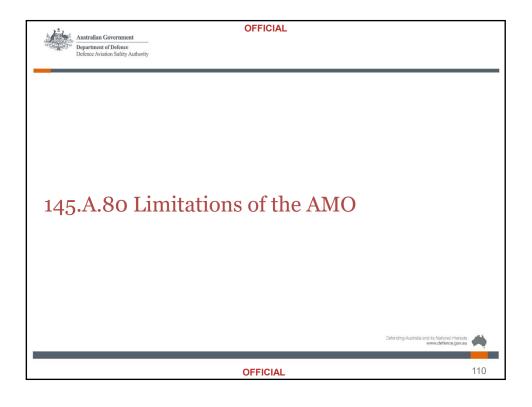
estralia and its National Interests www.defence.gov.au

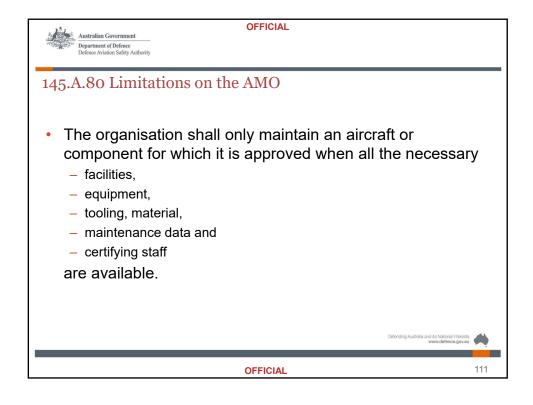
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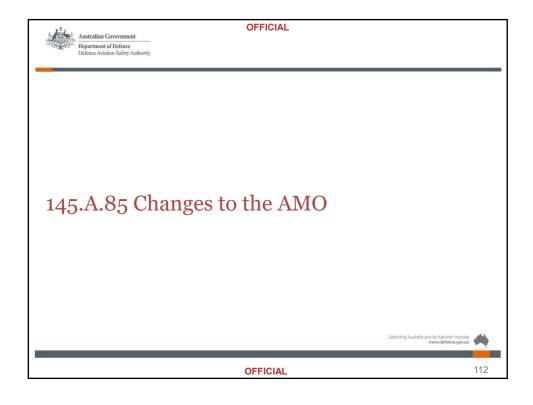














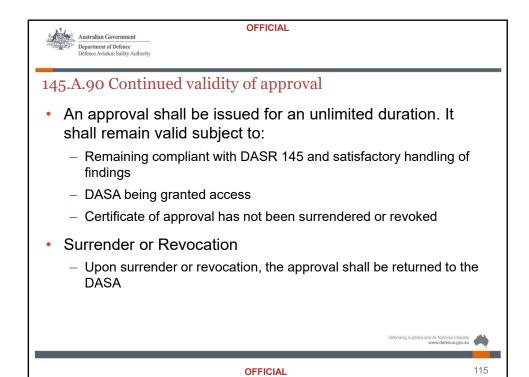
145.A.85 Changes to the AMO

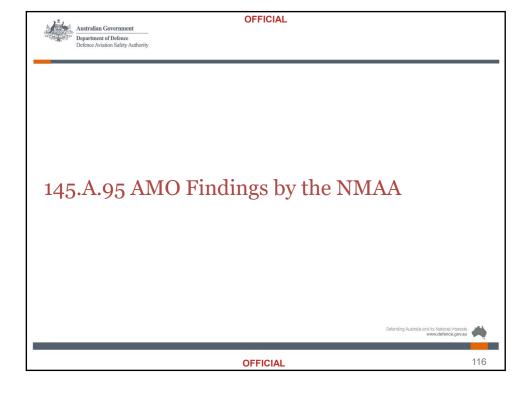
- The following significant changes shall be notified to DASA to enable determination of continued compliance with the DASR 145 and to amend, if necessary, the approval certificate:
 - Organisation name
 - Changes to the organisations location or additional locations
 - Accountable Manager and all appointed deputies;
 - Management Team and their appointed deputies;
 - Facilities, equipment, tools, material, procedures, work scope or certifying staff that could affect the approval.
 - The ownership of the organisation or its parent company.
- The AMO should notify DASA of any changes using DASR Form 2.



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DASA Oversight and Enforcement Process

- Approved organisations are required to grant access to DASA for conduct of Oversight and Enforcement (O&E) activities
 - In most cases, DASA will coordinate with the organisation to arrange the visit
- Discoveries made during the O&E activity will be made known to the organisation and formally reported in the post visit assessment
- Post visit, DASA personnel will internally consult to agree on the level of enforcement action required (e.g. observation, etc.)



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Findings by the NMAA (DASA)

Levels of findings:

- **Level 1** any non-compliance with the DASR requirements which lowers the safety standard and seriously hazards flight safety.
- Level 2 Is any non-compliance with the DASR requirements which lowers the safety standard and possibly hazards flight safety.
- **Level 3** Any non-compliance or potential non-compliance, identified by objective evidence, which could lower the safety standard and possibly hazards flight safety.





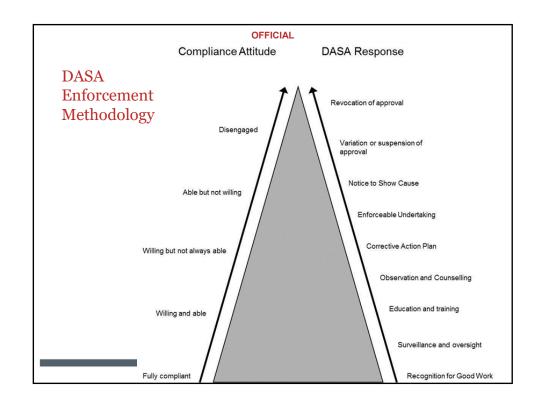
145.A.95 AMO Findings by the NMAA

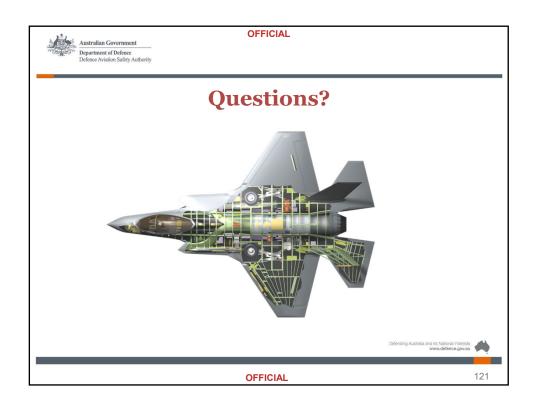
- After receipt of notification of a level 1 or 2 finding, the DASR 145 shall:
 - identify the root cause of the non-compliance;
 - define a corrective action plan; and
 - demonstrate corrective action implementation to the satisfaction of DASA within a period required by DASA.
- DASA has some flexibility in selection of finding level as it is dependant on the degree that the hazard endangers flight safety and the attitude of the organisation in addressing the hazard.

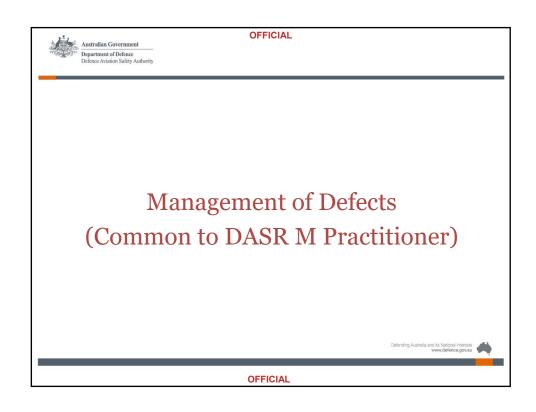
A 145's non-compliance with the actions above leads to a full or partial suspension of the approval by DASA.

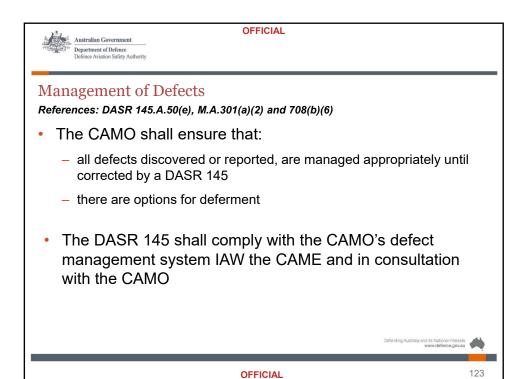


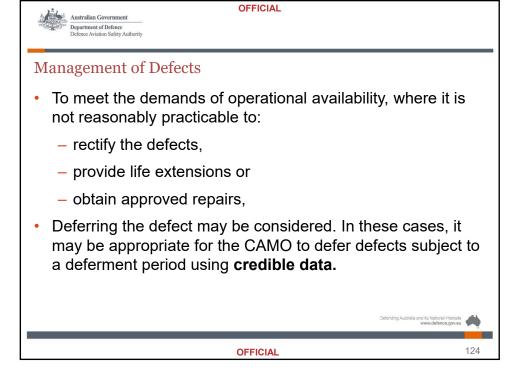
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Management of Defects - Credible Data

- Credible data is considered to be any instructions or information resources defined by the CAMO in the NMAA approved CAME that is required to retain the aircraft and/or related equipment in a condition for safe flight.
- The CAMO should articulate in the CAME who can use credible data.
- Credible data may include:
 - MEL/CDL
 - Maintenance Data as defined by DASR 145.A.45(b)
 - OEM publications / Type certification data
 - Designs or advice from the relevant design approval holder
 - Field Service Representative data
 - Flight operations advice





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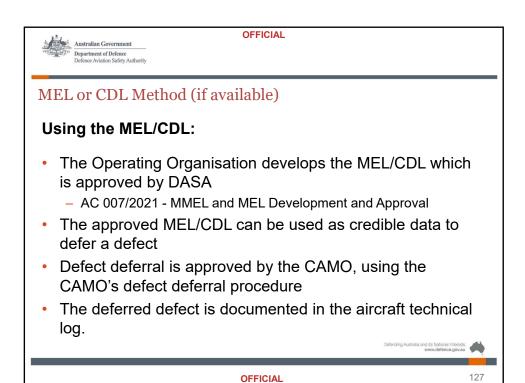
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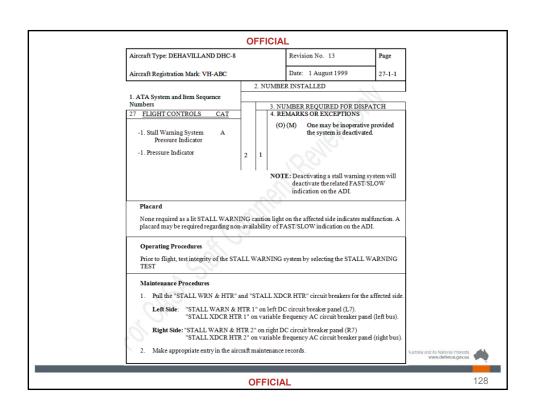
MEL or CDL Method (if available)

- Master Minimum Equipment List (MMEL) Established for a
 particular aircraft type by the manufacturer. It identifies items which,
 individually, may be unserviceable at the commencement of a flight.
- Minimum Equipment List (MEL) This list is prepared by the operator for their own aircraft, taking into account their aircraft configuration and the relevant operational and maintenance conditions.
- Configuration Deviation List (CDL) Similar to MEL, but refers to external components that are missing/uninstalled and may have associated operating limitations and/or performance corrections.



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Management of Defects – 'Endanger Flight Safety'

Reference: DASR AMC1 to 145.A.50(a)

- Requires a technical assessment by DASR 145 staff and agreement by the CAMO for deferral.
- Authorised certifying staff conduct an assessment to determine if the defect 'endangers flight safety'. Note 'authorised certifying staff' is used indicating the certifying staff are required to be specifically authorised to defer defects.
- Definition of endangers flight safety:
 - 'Endanger flight safety' means any instance where safe operation could not be assured or which could lead to an unsafe condition. It typically includes, but is not limited to, significant cracking, deformation, corrosion or failure of primary structure, any evidence of burning (including overheating), electrical arcing, significant hydraulic fluid or fuel leakage and any emergency system or total system failure. An AD overdue for compliance is also considered a hazard to flight safety.'



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Management of Defects – 'Endanger Flight Safety'

- If the defect does not 'endanger flight safety' the decision is then passed to the CAMO for agreement to defer the defect in accordance with the procedure approved in the CAME.
- If the CAMO agrees to the deferment, the DASR 145 may raise a deferred defect subject to details of the deferment, including the CAMO's agreement, being endorsed on the certificate.
- The CAMO must ensure that deferred defects are documented in the continuing airworthiness record system, including the deferment period and any associated limitations/restrictions



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Management of Defects - CAMO

- If assessment determines the defect does (or may) 'endanger flight safety' and is referred to the CAMO, the CAMO can:
 - Task a DASR 145 to rectify the defect.
 - Provide a life extension to the maintenance interval IAW GM M.A.301(a)(3).
 - Seek an approved repair (may be unrepaired damage) from a Military Design Organisation (MDO), who will issue an approved repair and/or modified flight conditions.
 - Seek a Military Permit to Fly (MPTF) per the requirements of DASR
 21 Subpart P
 - Utilise Command Clearance IAW DASR SPA.10



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