



Defence  
Safety Authority

# Single Skills Framework

## Airworthiness Competence Set

Version 2.0 (Jan 22)

Military Aviation Authority

**MAA**

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## **FOREWORD BY DIRECTOR (TECHNICAL) MAA**

Responsibility for the Air Safety and, consequently, the Airworthiness of military aircraft is vested in the Secretary of State for Defence, who delegates their authority in this matter to each Service Chief of Staff and Chief Executive Officer for onward delegation to competent individuals. Within DE&S or an Approved Design Organization, where an individual requires Airworthiness Authority to amend the Aircraft Document Set, formal delegation of such authority is required. A formal record of the notification of Air Safety responsibility is also required to ensure that individuals who do not have Airworthiness Authority are aware of the impact on safety of their aviation-related activity; such notification is required to be clear, unambiguous and auditable.

The Airworthiness Competence Set (ACS) is fundamental to assessing the knowledge and experience of an individual to fulfil an Airworthiness role in the Defence Air Environment. This version of the ACS has been subject to complete review by the MAA with the support of DE&S, with the aim of expanding the utility to support the development of the Airworthiness skills throughout the careers of those requiring delegation. It has been updated to reflect more accurately the key contemporary challenges in Certification and to develop the skills to support wider responsibilities such as Continuing Airworthiness Management.

Relevant DE&S Operating Centre Directors, intermediate line managers and all Type Airworthiness Authorities should hold a Letter of Airworthiness Authority supported by a Letter of Endorsement (LoE) of Airworthiness Competence issued by the MAA. Type Airworthiness Managers in an Approved Design Organization should hold a Letter of Appointment (LoA) supported by a LoE issued by the MAA.

Nominated Post Holders who require a LoE should submit a completed Airworthiness Competence Set assessment, current CV and Terms of Reference for their appointment to the MAA for review. Once satisfied, the MAA will issue a personal LoE to the applicant which will remain valid only for the duration of the applicant's current assignment and cannot be transferred between platforms/teams.

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## Definitions

Below are the definitions to be applied for the assessment levels within the Airworthiness Competence Set

Awareness	The person has a basic understanding of the key issues and their implications for Airworthiness. They are able to ask relevant and constructive questions on the subject, are learning the skill and when facing something new or unusual they have to refer to procedures, manuals or other team members for guidance. Work undertaken under guidance and activities checked in detail by a supervisor.
Supervised Practitioner	The person has sufficient skill, knowledge, understanding and behavioral skills to be able to work on tasks associated with the overall Airworthiness function without placing an excessive burden on the Practitioner or Expert supervising the work.
Practitioner	The person has sufficient skill, knowledge, understanding and behavioral skills, and sufficient demonstrated experience of competency to be able to work on the overall Airworthiness function without the need for detailed supervision.
Expert	The person has sufficient understanding of why things are performed in certain ways, and/or will have demonstrated managerial skills, sufficient to be able to take overall responsibility for the performance of an Airworthiness function. An Expert keeps abreast of technology, application solutions, standards and regulatory requirements, particularly in rapidly evolving fields and is able to work in novel situations
Air System (when described in the ACS)	MAA02 Definition: Fixed or Rotary Wing Aircraft, piloted or remotely piloted, and the ground-based systems vital to their safe operation, with context applicable to Products, Parts, Appliances, Airborne Equipment and Air-Launched Weapons (ALW)

TABLE 1. Definition of key terms.

# THE AIRWORTHINESS COMPETENCE SET (ACS) – GUIDANCE AND COMPLETION

## Introduction

1. The Airworthiness Competence Set (ACS) is one of the MOD Functional competence sets that can be used to assess the knowledge and experience of an individual fulfilling an Airworthiness role in the Defence Air Environment (DAE).
2. Defence Equipment and Support (DE&S) Operating Centre Directors (OCD), intermediate line managers, Type Airworthiness Authorities (TAA) and Type Airworthiness Managers (TAM) should apply to the MAA for endorsement of their suitability to hold a Letter of Airworthiness Authority (LoAA) or Letter of Appointment (LoA) through submission of the completed ACS. The MAA will review this application and, if content, issue an appropriate Letter of Endorsement (LoE) recognising the suitability of the applicant. The applicant should not be awarded a LoAA/LoA before their LoE is received.
3. This ACS was developed in conjunction with the DE&S Airworthiness Team (DAT) and the DE&S Airworthiness Safety Competence Assessment Tool (DASCAT).

## Roles and responsibilities for holding and issuing a Letter of Endorsement (LoE)

4. A clear, unbroken chain of delegation from Secretary of State for Defence through the DE&S Chief Executive Officer (CEO) or Service Chief of Staff (CoS) to the respective TAA and TAM should exist, through 2\* OCDs or Sponsor of Military Registered Civilian-Owned and Civilian Operated Air Systems including intermediate line managers as necessary, with each receiving the appropriate level of delegation.
5. The DE&S CEO should issue a Letter of Airworthiness Authority (LoAA) to Director General Air (DG Air) containing, as a minimum, the Air Safety responsibilities and Airworthiness Authorities detailed in Regulatory Article (RA)1012. DG Air should issue LoAAs to those OCDs with responsibilities for Air Systems and equipment, containing as a minimum, the relevant Air Safety responsibilities and Airworthiness Authorities detailed in RA 1013. OCDs should issue LoAAs to subordinate TAAs, via intermediate line managers where necessary. These LoAAs should contain, as a minimum, the Airworthiness Authorities detailed in RA 1015 with any limitations identified.
6. The Service CoS should issue a Letter of Delegation (LoD) to the Sponsor of Military Registered Civilian-Owned and Civilian Operated Air Systems if not a 2\* OCD within DE&S, containing, as a minimum, the Air Safety responsibilities and Airworthiness Authorities detailed in RA 1019. Sponsors should issue a Letter of Appointment (LoA) to TAMs. These LoAs should contain, as a minimum, the Airworthiness Authorities detailed in RA 1015 and as determined by the Sponsor iaw RA1162/1163.
7. OCDs, TAAs, and any intermediate line managers requiring delegation of Airworthiness Authority are to complete the ACS through the DASCAT for submission to the MAA. A downloadable version of the SQEP Self-Assessment Form is available on the MAA website for TAMs and personnel without access to the DASCAT through DE&S.
8. Once satisfied, the MAA will issue a personal Letter of Endorsement (LoE) recognising the suitability of the applicant that will remain valid only for the duration of the applicant's current assignment and cannot be transferred on taking up a new assignment. The endorsement of the TAM will be conducted as part of the approval of the TAw Management Supplement to the respective Design Approved Organisation Scheme (DAOS) exposition and will require the submission of a DAOS Form 4 to the MAA.

## Assessment of Airworthiness Competence

9. In order to assess suitability to hold a LoE an applicant should be able to demonstrate their competence across the scope of their responsibilities. These have been grouped into the major functions associated with Airworthiness as described below:

- a. **Core Function.** The core function encompasses the MOD's Air Safety organizational construct, and the practices of Airworthiness and safety engineering as they apply to a programme.
- b. **Type Airworthiness (TAw).** The TAw function encompasses the actions associated with the upkeep of a Type Design and the associated Approved Data through life.
- c. **Continuing Airworthiness (CAw) support.** The CAw function encompasses those competencies necessary to provide satisfactory support to the Aviation Duty Holder / AM(MF) / MilCAM to facilitate the delivery of a safe environment within which Airworthiness may be sustained.
- d. **Aircraft Systems. (Not required for issue of LOE)** The Aircraft System function encompasses the knowledge and understanding of Aircraft System(s) that when required in a role ensures safe and effective military aircraft operation.
- e. **Air Safety Management.** The Air Safety Management function encompasses knowledge and understanding of specialist safety management requirements and techniques.
- f. **Release To Service and Military Permit to Fly Management.** The Release To Service (RTS) and Military Permit to Fly (MPTF) management function encompasses knowledge and understanding of preparing Release To Service Recommendations (RTSR) / MPTF.

## Context

10. A competency assessment will be undertaken within the context of the assignment in which the individual is being evaluated. The context is essential, firstly to set the boundaries within which the admissibility and relevance of evidence in support of each competency must be judged, and secondly to allow a judgement to be made in the future of the validity of this competency assessment to a new environment or context. The factors which bound that context are:

- a. The standards or regulatory framework within which the individual operates.
- b. The individual's relevant experience operating within that environment.
- c. Specific knowledge relevant to the application, where appropriate (fast jet, rotary wing etc).
- d. Specific knowledge of technologies appropriate to the application.

## Other users

11. There are many posts which do not require a LoE where the actions of an individual or the corporate competence of the organization can have a profound effect on Airworthiness. The ACS can be a powerful tool, which can be tailored to specific posts, to inform decision-making relating to the competence of personnel filling such posts. Its use will assist a manager in determining the corporate competence of the organization to undertake the task, enabling them

to target their supervisory and development effort effectively, and to allocate responsibilities appropriately.

### **Assessment Guidance and Levels**

12. For each individual competency, assessment guidance is provided for use when assessing the competence of a person to perform an Airworthiness function. Assessment guidance is given for four levels of competence, 'Awareness', 'Supervised Practitioner', 'Practitioner' and 'Expert' as defined in Table 1.

13. The individual assessments of competence should be recorded in the DASCAT Competence/SQEP Self-Assessment Form Evidence for Competence box by the candidate. Applicants are advised to consider the SQEP criteria for each competence and provide a succinct narrative majoring on the personal practical experience and identify theoretical knowledge where appropriate and a judgement of overall competence made. The rules for making a judgement of overall competency are that:

- a. An award of an attainment of a particular level of overall competency in performing an Airworthiness function should only be made if at least 80% of the individual competencies have been achieved at that level or higher; and
- b. An overall level of 'expert' or 'practitioner' should only be awarded provided none of the individual task or function-related competencies is at awareness level.

14. It is expected that the candidate takes steps to improve competence in the weaker areas, and to this end the applicant should identify in their submission an 'Action Plan'. Examples of an action plan for a TAA/TAM is as follows:

Spend time in an Air Domain Delivery Team to:

- a. Shadow the Airworthiness Issues management process.
- b. Understand Continuing Airworthiness support.
- c. Shadow the Aircraft Document Set change process.
- d. Shadow the safety management process to understand the Equipment Contribution to Risk to Life.
  - i. Attend HRB/PSEP/ESR/ASSWG
  - ii. Explore the different approaches to Aircraft Loss Models and Hazard Logs.
  - iii. Understand how RtL is communicated and accepted by the ADH/AM(MF) chain
- e. Attend Integrity Working Groups.
- f. Attend Local Technical Committees and Configuration Control Boards.
  - i. Shadow the approval of Minor changes – we need to see examples of application of the MACP and appropriate design standards
  - ii. Shadow a TAA when assuring the artefacts supporting a Certificate of Design
- g. Shadow a TAA when assuring a MPTF.
- h. Shadow a TAA in developing an RTSR.

Spend time within Industry to:

- a. Shadow an Industry Chief Engineer to observe them in undertaking their role.
- b. Follow the procedure for assuring a Certificate of Design.
- c. Follow the artefacts that support the certification of a Design Organisation modification through industry processes.
- d. Attend a Preliminary Design Review and/or Critical Design Review.

Spend time with the MAA to:

- a. Attend a DE&S DT Audit or at least the debrief.
- b. Attend a certification review meeting focussed on a Type Certification Basis and Type Certification Exposition Report.

15. Where the self-assessment is to be used in support of delegation below TAA or TAM the ACS can be tailored to the assignment and the completed self-assessment should be presented to the delegating officer or line manager, as appropriate, for review (Note: not required to be provided to the MAA). The reviewing officer should examine the claims to ensure they are completely satisfied that the assessment is a true and accurate reflection of the candidate's competence within the required scope; this may include an interview and/or examination of any written evidence submitted.

16. If the assessment was made in support of a proposed formal Airworthiness delegation and the delegating officer is content that the assessment fully justifies the issue of a letter of delegation, they should annotate acceptance of the assessment and file it as supporting justification with the letter. If the delegating officer is not content, they must not make the proposed delegation; they may, however, consider that the assessment supports a more limited delegation and proceed accordingly.

17. It is not intended that the ACS should be used as a measure for the purposes of performance reporting. Indeed, the ACS relies on honest self-assessment. However, where a candidate does not assess themselves as Practitioner or Expert for those seeking an LoE, or required level for other staff, they are to include the strategy they propose to address this weakness.

18. The completed self-assessment for TAA (and appropriate 1/2\* appointed airworthiness delegation holding positions)/TAM is to be submitted to the MAA in accordance with MAA03.

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Annexes:

Annex A - ACS1 Core Function

Annex B - ACS2 Type Airworthiness (TAW)

Annex C - ACS3 Continuing Airworthiness (CAW) support

Annex D - ACS4 Aircraft Systems

Annex E - ACS5 Air Safety Management

Annex F - ACS6 Release To Service and Military Permit to Fly Management



## **ACS1 Core Function**

### **Summary**

The Core function encompasses those competences necessary to understand the regulatory context and associated behaviours in which Defence Aviation is conducted to facilitate the delivery of a safe environment within which Airworthiness may be established and preserved.

The eight common competencies comprising the core function are:

- Defence Aviation Context
- Air Safety Regulation & Policy
- Air Safety Behaviours
- Staff & Organizational Competence
- Air Safety Assurance
- Process Delivery
- External Support
- Failure Modes & Effects

<b>ACS1.1: Defence Aviation Context</b>			
Has knowledge and understanding of MOD's Air Safety organizational construct, and the practices of Airworthiness and safety engineering as they apply to the programme in question.			
<b>Awareness</b>	<b>Supervised Practitioner</b>	<b>Practitioner</b>	<b>Expert</b>
Is aware of MOD's Air Safety organizational construct and Airworthiness practices.	Is developing a sound knowledge and understanding of the MOD's Air Safety organizational construct and Airworthiness practices.	Has worked on an Airworthiness project to demonstrate a sound knowledge and understanding of how safety requirements are addressed and satisfactorily applied MOD's Air Safety methods, techniques, technologies and Airworthiness practices.	Can provide advice and guidance on the MOD's Air Safety methods, techniques, technologies and Airworthiness practices as a recognised subject matter expert demonstrating deep understanding in both breadth and depth of the Defence Air Environment.
Is aware of how applicable Air Systems are used within the Defence Air Environment.	Is developing a sound knowledge and understanding of how applicable Air Systems are used within the Defence Air Environment.	Can demonstrate a sound knowledge and understanding of how a range of Air Systems are used within the Defence Air Environment.	Can provide advice and guidance on how a broad range of Air Systems are used within the Defence Air Environment, as a recognised subject matter expert.
Is aware of the Air Safety roles defined in regulations.	Is developing a sound knowledge and understanding of all Air Safety roles defined in regulations and the MOD's Air Safety organizational structure for satisfying those roles.	Can demonstrate a sound knowledge and understanding of all Air Safety roles defined in regulations and the MOD's Air Safety organizational construct for satisfying those roles.	Has extensive direct experience and knowledge of working directly with a wide range of Air Safety organizations in a variety of Air Safety roles.

<b>ACS1.1: Defence Aviation Context</b>			
Has knowledge and understanding of MOD's Air Safety organizational construct, and the practices of Airworthiness and safety engineering as they apply to the programme in question.			
<b>Awareness</b>	<b>Supervised Practitioner</b>	<b>Practitioner</b>	<b>Expert</b>
Is aware of the key factors influencing Air Safety delivery specific to the programme in which the individual is assigned.	Is developing a sound working knowledge and understanding of the key factors influencing Air Safety delivery to the programme(s) in which the individual is assigned.	Can demonstrate a sound knowledge and understanding to shape the Air Safety programme(s) to which the individual is assigned.	Has extensive direct experience of working on Air Safety programmes at different stages of the project lifecycle. Is able to apply a strategic level of knowledge and understanding of Air Safety across a multitude of programme(s). Demonstrates the ability to shape, lead and deliver the Air Safety programme.

<b>ACS1.2: Air Safety Regulations &amp; Policy</b>			
Has knowledge and understanding of all relevant Air Safety policies, regulations and legal requirements.			
<b>Awareness</b>	<b>Supervised Practitioner</b>	<b>Practitioner</b>	<b>Expert</b>
Is aware of MOD Air Safety policy, regulatory and other legal requirements.	Is developing a sound working knowledge and understanding of MOD Air Safety policy, regulatory and legal requirements, including which organizations act as regulators to which regulation (eg Weapon vs Air System).	<p>Can demonstrate a sound knowledge and understanding of MOD Air Safety policy, regulation and legal requirements, including which organizations act as regulators to which regulation (eg Weapon vs Air System).</p> <p>Can demonstrate a sound knowledge and understanding of the policy, principles, procedures and guidance of the Air Safety Management System, how legal, regulatory and MOD-specific safety requirements are addressed.</p>	<p>Has extensive understanding of MOD Air Safety policy, regulation and legal requirements and the impact of not meeting them.</p> <p>Is able to apply extensive knowledge and understanding to justify the approach for meeting the relevant regulatory, legal and MOD-specific safety policies and other requirements in the Air Safety Management System.</p> <p>Has extensive experience engaging with multiple regulatory bodies to address Air Safety requirements.</p>

<b>ACS1.3: Air Safety Behaviours</b>			
Exhibits appropriate behaviours when undertaking Air Safety activities. Correctly assigns priorities and makes sound engineering judgements. Provides appropriate advice to external stakeholders and seeks advice when required.			
<b>Awareness</b>	<b>Supervised Practitioner</b>	<b>Practitioner</b>	<b>Expert</b>
Is aware of the need to recognise the limits of one's own Air Safety competence and to seek the appropriate (Technical/ISA/ITE/SME/TAA/Other delegation-holder) advice, when required	Is developing an understanding to recognise the limits of one's own Air Safety competence and to seek the appropriate (Technical/ISA/ITE/SME/TAA/Other delegation-holder) advice, when required	Is able to recognise the limits of one's own Air Safety competence and to seek the appropriate (Technical/ISA/ITE/SME/TAA/Other delegation-holder) advice, when required.	Has deep understanding in both breadth and depth of the need to recognise the limits of one's own Air Safety competence and to seek the appropriate (Technical/ISA/ITE/SME/TAA/Other delegation-holder) advice, when required.
Is aware how issues affecting the safe development and operation of Air Systems would be observed and prioritised.	Is developing a sound working knowledge and understanding of the issues affecting the safe operation of Air Systems would be observed and prioritised.	Is appropriately proactive in prioritising and addressing issues affecting the safe operation of Air Systems.	Establishes and uses a systematic approach to observing, prioritising and addressing issues affecting the safe operation of Air Systems.
Is aware of the arrangements for feeding back Airworthiness issues to the appropriate authority that affect safety. This includes basic knowledge of the safety executive's requirements with regard to a report on Airworthiness and how typical follow-up questions raised by the safety executive with regard to safety would be handled.	Is developing a sound working knowledge and understanding of the arrangements for feeding back Airworthiness issues to the appropriate authority that affect safety. This includes knowledge of the safety executive's requirements with regard to a report on Airworthiness and how typical follow-up questions raised by the safety executive with regard to safety would be handled.	Can explain the different methods they have used and considered for providing reports and/or advice on Airworthiness and identify the advantages and disadvantages of each method. Has provided at least one report and/or piece of advice to the safety executive in support of Airworthiness requirements.	Has reported directly to the safety executive on a significant range of Airworthiness issues, successfully presenting a resolution strategy and managing its implementation through to acceptance/resolution of the issue. Has established an effective system for providing advice on Airworthiness and is generally recognised as a source of sound advice on issues of Airworthiness.

<b>ACS1.3: Air Safety Behaviours</b>			
Exhibits appropriate behaviours when undertaking Air Safety activities. Correctly assigns priorities and makes sound engineering judgements. Provides appropriate advice to external stakeholders and seeks advice when required.			
<b>Awareness</b>	<b>Supervised Practitioner</b>	<b>Practitioner</b>	<b>Expert</b>
Is aware of the principles associated with risk-based decision-making when delivering Air Safety programmes.	Is developing the ability to exercise sound Air Safety judgement and to make risk-based decisions.	Has satisfactorily exercised sound Air Safety judgement and made risk-based decisions.	Has extensive expertise in exercising sound Air Safety judgement and to make risk-based decisions.
Is aware of the need to engage, report and communicate effectively with their immediate superiors on Air Safety Matters.	Is developing the ability to engage, report and communicate effectively with the full range of internal/external stakeholders on Air Safety Matters.	Has satisfactorily engaged, reported and communicated authoritatively with the full range of internal/external stakeholders on Air Safety Matters.	Has extensive expertise in engaging, reporting and communicating authoritatively with internal/external stakeholders on Air Safety Matters.

<b>ACS1.4: Staff and Organizational Competence</b>			
Ensures effective organizational arrangements are in place for the delivery of Air Safety and for the assignment of responsibilities to subordinates.			
<b>Awareness</b>	<b>Supervised Practitioner</b>	<b>Practitioner</b>	<b>Expert</b>
Is aware of the arrangements for the promotion of Air Safety information and for checking effectiveness used to ensure that staff are competent to perform aviation-safety activities.	Has sufficient working knowledge and understanding to explain the arrangements for the promotion of Air Safety information and checking effectiveness that are used to ensure that staff are competent to perform aviation-safety activities.	Has promoted awareness of essential Air Safety information, including making a check of understanding and taking corrective actions.	Develops and implements strategies for promoting Air Safety awareness within an organization. Responds appropriately where difficulty is encountered so that the underlying issues are overcome.

<b>ACS1.4: Staff and Organizational Competence</b>			
Ensures effective organizational arrangements are in place for the delivery of Air Safety and for the assignment of responsibilities to subordinates.			
<b>Awareness</b>	<b>Supervised Practitioner</b>	<b>Practitioner</b>	<b>Expert</b>
Is aware of the competency standards and assessment scheme for ensuring that staff are SQEP to perform their Air Safety activities and hold a Letter of Airworthiness Authority/Letter of Appointment.	Is developing a sound working knowledge and understanding of the competency standards and assessment scheme for ensuring that staff are SQEP to perform their Air Safety activities and hold a Letter of Airworthiness Authority/Letter of Appointment.	Can demonstrate a sound knowledge and understanding of the arrangements to allocate staff to Airworthiness and safety roles, having applied competency standards and assessment scheme to ensure that staff are SQEP to perform their Air Safety activities and hold a Letter of Airworthiness Authority/Letter of Appointment.	Has extensive experience of implementing systematic arrangements to allocate staff to Airworthiness and safety roles, having applied competency standards and assessment scheme to ensure that staff are SQEP to perform their Air Safety activities, hold a Letter of Airworthiness Authority/Letter of Appointment and monitoring the efficacy of those decisions.
Is aware of the activities typically undertaken on a project to address the needs of Air Safety and Airworthiness, the assignment of responsibilities and the allocation of resource.	Is developing a sound working knowledge and understanding of the activities typically undertaken on a project to address the needs of Air Safety and Airworthiness, the assignment of responsibilities and the allocation of resource.	Has been actively involved in a project addressing the needs of Air Safety and Airworthiness, specifically the assignment of responsibilities and the allocation of resource.	Has extensive and diverse experience of establishing effective projects to meet the needs of Air Safety and Airworthiness. This includes assessing, establishing and allocating the appropriate levels of resource.

<b>ACS1.4: Staff and Organizational Competence</b>			
Ensures effective organizational arrangements are in place for the delivery of Air Safety and for the assignment of responsibilities to subordinates.			
<b>Awareness</b>	<b>Supervised Practitioner</b>	<b>Practitioner</b>	<b>Expert</b>
<p>Is aware of the need for contracted Design, Maintenance, Contractor Flying, and Air Traffic Management Equipment organizations to be approved by the MAA.</p> <p>Is aware of the on-going assurance requirements associated with MAA approved organizations and the need for changes in the scope of the approval to be addressed.</p>	<p>Is developing a sound working knowledge and understanding of the means by which Design, Maintenance, Contractor Flying, and Air Traffic Management Equipment organizations achieve MAA approval and can assist in facilitating the process.</p> <p>Is able to support the on-going assurance of MAA approved organizations and the activity needed to address changes in scope of the approval.</p>	<p>Can demonstrate a sound knowledge and understanding of the means by which Design, Maintenance, Contractor Flying, and Air Traffic Management Equipment organizations achieve MAA approval and can demonstrate the ability to work with the MAA and organization to ensure success.</p> <p>Has satisfactorily managed the on-going assurance of MAA approved organizations and worked with the MAA and the organization to help address changes in scope of the approval.</p>	<p>Has extensive experience of the means by which Design, Maintenance, Contractor Flying, and Air Traffic Management Equipment organizations achieve MAA approval and can demonstrate the ability to work with the MAA and organization to ensure success.</p> <p>Has extensive experience managing on-going assurance of MAA approved organizations, changes in scope and when circumstances require an alternative approach to be taken such as needing to develop a mechanism to assure the competency of organizations undertaking activities for which no MAA approval scheme exists, or which is beyond the scope of the approval schemes (eg. AAMC/Waiver/Exemption).</p>
<p>Is aware how to make changes to existing procedures and contribute to new procedures necessary for the achievement of Air Safety.</p>	<p>Has sufficient working knowledge and understanding to explain how to make changes to existing procedures and contribute to new procedures necessary for the achievement of Air Safety.</p>	<p>Has made changes to existing procedures and contributed to new procedures and their implementation necessary for the achievement of Air Safety.</p>	<p>Develops and implements appropriate procedures, which conform to applicable policy, regulations and laws on aviation safety and which when followed achieve the organizational requirements for aviation safety.</p>



<b>ACS1.5: Air Safety Assurance</b>			
Assures the satisfactory delivery of information, products and processes used to deliver Air Safety so that they achieve compliance with key mandates and achievement of required safety outcomes.			
<b>Awareness</b>	<b>Supervised Practitioner</b>	<b>Practitioner</b>	<b>Expert</b>
Is aware of the purpose of a Project Safety Management Plan for an Air System.	<p>Has sufficient working knowledge and understanding to explain the purpose of a Project Safety Management Plan for an Air System.</p> <p>Has supported the collection, collation and assessment of Air Safety and Airworthiness assurance information as detailed in a Project Safety Management Plan.</p>	<p>Has contributed to the development of the Project Safety Management Plan for an Air System.</p> <p>Has satisfactorily collected, collated and assessed Air Safety and Airworthiness assurance information as detailed in a Project Safety Management Plan. Has proposed improvements to address the root cause of non-compliance when deemed necessary.</p>	Develops and implements effective arrangements in the Project Safety Management Plan for the collection, collation and assessment of Air Safety and Airworthiness assurance information from all relevant parties, both internal and external, to initiate improvements to address the root cause of non-compliance when deemed necessary through negotiating and influencing.
Is aware of the need for mechanisms (eg. audits, approval schemes) across the MOD to monitor compliance of projects with the airworthiness safety management system.	Has sufficient working knowledge and understanding to explain the mechanisms (eg. audits, approval schemes) that have been put in place across the MOD to monitor compliance of projects with the airworthiness safety management system.	Can demonstrate a sound knowledge and understanding to explain the advantages and disadvantages and illustrate with examples, the different mechanisms (eg. audits, approval schemes) for monitoring compliance with the airworthiness safety management system.	Can cite examples (real or hypothetical) where a lack of adequate monitoring has led, or could lead to, a potentially unsafe situation, and can explain how monitoring within the MOD has been applied to counter such examples (eg. audits, approval schemes). Can develop and implement strategies for the resolution of issues found.
Is aware of the process of audit review to determine whether they have demonstrated satisfactory compliance with planned arrangements.	Has assisted in the review of one or more audits to determine whether they have demonstrated satisfactory compliance with planned arrangements.	Has critically reviewed one or more audits to determine whether they have demonstrated satisfactory compliance with planned arrangements.	Is able to apply a strategic level of knowledge and understanding of the root causes of non-compliance with the airworthiness safety management system and identify trends in compliance.

<b>ACS1.5: Air Safety Assurance</b>			
Assures the satisfactory delivery of information, products and processes used to deliver Air Safety so that they achieve compliance with key mandates and achievement of required safety outcomes.			
<b>Awareness</b>	<b>Supervised Practitioner</b>	<b>Practitioner</b>	<b>Expert</b>
Is aware of the need for corrective actions, to ensure satisfactory compliance with the airworthiness safety management system, through negotiating and influencing.	Has assisted in developing corrective actions, to ensure satisfactory compliance with the airworthiness safety management system, through negotiating and influencing.	Has instigated corrective action, to ensure satisfactory compliance with the airworthiness safety management system, through negotiating and influencing.	Has extensive experience of instigating corrective action at all levels, to ensure satisfactory compliance with the airworthiness safety management system, through negotiating and influencing.
Is aware of the need for compliance with Air Safety policies, regulations, laws and the Project Safety Management System.	Has sufficient working knowledge and understanding to explain the mechanisms that are used across the MOD to monitor compliance of projects, including output from MAA approved Organization, with Air Safety policies, regulations, laws and the Project Safety Management System.	Has applied appropriate methods used to monitor compliance of projects, including output from MAA approved Organization, with Air Safety policies, regulations, laws and the Project Safety Management System.	Develops and implements the strategy to, continually review and monitor the effectiveness of methods of assuring compliance of projects with Air Safety regulations, policies, laws, and the Project Safety Management Plan.
Is aware that safety assurance information is needed to provide evidence to support an argument that an Air System is safe to operate, including the need for an ADH/AM(MF) to sentence the residual risks ALARP and Tolerable.	Has sufficient working knowledge and understanding to list typical safety assurance information, the applicable sources and the process necessary to provide evidence to support an argument to an ADH/AM(MF) that an Air System is safe to operate, supporting the ADH/AM(MF)'s sentenced argument that the risk is managed ALARP and Tolerable.	Has gathered safety assurance information and presented an argument to an ADH/AM(MF) (via Significant Engineering Information Note (SEIN) or similar) recommending that an Air System is safe to operate and supporting the ADH/AM(MF)'s sentenced argument that the risk can be managed ALARP and Tolerable.	Has extensive experience gathering safety assurance information and presenting the arguments to an ADH/AM(MF) (via Significant Engineering Information Note (SEIN) or similar) recommending that an Air System is safe to operate and supporting the ADH/AM(MF)'s sentenced argument that the risks can be managed ALARP and Tolerable.

<b>ACS1.5: Air Safety Assurance</b>			
Assures the satisfactory delivery of information, products and processes used to deliver Air Safety so that they achieve compliance with key mandates and achievement of required safety outcomes.			
<b>Awareness</b>	<b>Supervised Practitioner</b>	<b>Practitioner</b>	<b>Expert</b>
Is aware of the need for Air Safety products to be reviewed critically prior to their approval.	Is developing a sound working knowledge and understanding to review Airworthiness artefacts critically and to pass comment on their robustness.	Has critically reviewed Airworthiness artefacts to pass comment on their robustness.	Has extensive expertise in reviewing Air Safety artefacts critically, passing comment on their robustness and acting as the responsible owner for approval and delivery.
Is aware of the need for independent advice and the need to raise safety issues for resolution.	Has sufficient working knowledge and understanding to explain the occasions whereby independent advice is required and how safety issues are raised for resolution.	Has sought independent advice and ensured that any safety issues raised were resolved and applied such advice in the achievement of safety outcomes.	Has extensive experience in seeking independent advice, has ensured that safety issues raised are resolved, applied such advice in the achievement of safety outcomes and fully understands the process for challenging and/or rejecting independent advice.
Is aware of the requirement for all UK Military Air Systems to be registered on the UK Military Aircraft Register.	Has sufficient working knowledge and understanding to support the determination of whether or not an Air System meets the prerequisites for military registration and the application to the MAA for registration.	Can demonstrate a sound knowledge and understanding to determine if an Air System meets the prerequisites for military registration and apply to the MAA for registration.	Has extensive experience determining if an Air System meets the prerequisites for military registration and complete the application for registration. Has an understanding of the differences in registering Air Systems operated outside of MOD interest, in development and those requiring civil oversight.

<b>ACS1.5: Air Safety Assurance</b>			
Assures the satisfactory delivery of information, products and processes used to deliver Air Safety so that they achieve compliance with key mandates and achievement of required safety outcomes.			
<b>Awareness</b>	<b>Supervised Practitioner</b>	<b>Practitioner</b>	<b>Expert</b>
Is aware of the need to undertake assurance of the Air Safety arrangements for CAA oversight of Military Registered Air Systems.	Has sufficient working knowledge and understanding to provide support to the assurance of the Air Safety arrangements for CAA oversight of Military Registered Air Systems.	Can demonstrate a sound knowledge and understanding to undertake assurance of the Air Safety arrangements for CAA oversight of Military Registered Air Systems.	Has direct first-hand experience of undertaking assurance of the Air Safety arrangements for CAA oversight of Military Registered Air Systems.

<b>ACS1.6: Process Delivery</b>			
Has an understanding of the context in which applicable Air Safety activities are performed and the ability to deliver satisfactory outcomes.			
<b>Awareness</b>	<b>Supervised Practitioner</b>	<b>Practitioner</b>	<b>Expert</b>
Has an awareness of the regulatory, policy, organizational and programmatic context in which applicable Air Safety procedures are performed.	Has sufficient working knowledge and understanding to explain the regulatory, policy, organizational and programmatic context in which applicable Air Safety procedures are performed.	Can demonstrate a sound knowledge and understanding to plan the development of Air Safety procedures to suit the regulatory, policy, organizational and programmatic context in which they are performed.	Applies strategic direction to the establishment of Air Safety procedures to suit the regulatory, policy, organizational and programmatic context in which they are performed. Critically analyses the compliance and seeks appropriate authorisation where compliance is deficient.
Has an awareness of applicable Air Safety procedures and the ability to contribute to their delivery.	Has the ability to follow established Air Safety procedures.	Has contributed to the development/improvement of established Air Safety procedures.	Provides direction and authoritative guidance, including across multiple platforms/projects, producing many project-specific Air Safety procedures, which have been shown to be appropriate.
Has an awareness of the methods for gathering, compiling and interpreting Airworthiness data relevant to applicable Air Safety procedures.	Has sufficient working knowledge and understanding to explain the methods for gathering, compiling and interpreting Airworthiness data relevant to applicable Air Safety procedures.	Has followed the methods for gathering, compiling and interpreting Airworthiness data relevant to applicable Air Safety procedures	Has extensive experience of planning the execution and steering successful delivery of multiple methods for gathering, compiling and interpreting Airworthiness data relevant to applicable Air Safety procedures. Has the extensive experience to challenge compliance and deals with resolution where data is insufficient

<b>ACS1.7: External Support</b>			
Makes appropriate arrangements for the delivery of Air Safety support by external organizations, including ensuring regulations are contracted appropriately, identifying competence of organizations and identifying the need for technical disciplines that are deficient within the organization.			
<b>Awareness</b>	<b>Supervised Practitioner</b>	<b>Practitioner</b>	<b>Expert</b>
Is aware of the arrangements for involving external agencies in Airworthiness and Safety related contracts.	Has sufficient working knowledge and understanding to explain the purpose of, and process for, the involvement of external agencies in the provision of Airworthiness and Safety related contracts.	Is appropriately proactive in prioritising and managing the involvement of external agencies in the provision of Airworthiness and Safety related contracts.	Has extensive experience of managing the involvement of external agencies in the provision of Airworthiness and Safety related contracts. Scrutinises the outputs from such providers, directs appropriate courses of action in determining need and requirements for external support
Is aware of the need to specify safety requirements within Airworthiness or Safety related support contracts and how changes to requirements are handled, such that safety is not compromised.	Has sufficient working knowledge and understanding to explain how safety requirements are specified within the context of an Airworthiness or Safety related support contract, how they are incorporated within an ITT and/or SOR and how changes to requirements are handled, such that safety is not compromised.	Has specified a complete and unambiguous set of safety requirements for an Airworthiness or Safety related support contract within an ITT and/or SOR or managed a change to requirements, such that safety is not compromised.	Has extensive experience of ensuring that a complete and unambiguous set of safety requirements have been incorporated in an ITT and/or SOR or resolved issues relating to contracts to improve airworthiness, for several Airworthiness or Safety related external support contracts, such that safety is not compromised.
Is aware of the method for a desk-based selection of a response to ITT.	Is familiar with the method to perform a desk-based selection of a response to ITT.	Has satisfactorily performed a desk-based assessment of a response to an ITT using a systematic approach, which accurately determined the degree of conformance to an ITT.	Has extensive experience of performing and documenting the results of a response to ITT, drawn conclusions and made recommendations, which were recognised as valid.

<b>ACS1.7: External Support</b>			
Makes appropriate arrangements for the delivery of Air Safety support by external organizations, including ensuring regulations are contracted appropriately, identifying competence of organizations and identifying the need for technical disciplines that are deficient within the organization.			
<b>Awareness</b>	<b>Supervised Practitioner</b>	<b>Practitioner</b>	<b>Expert</b>
Is aware of the approach used for a technical assessment of a supplier to accurately determine the degree of conformance to an ITT.	Is familiar with the approach used for a technical assessment of a supplier to accurately determine the degree of conformance to an ITT.	Has satisfactorily generated a supplier assessment plan, which if followed successfully would accurately determine the degree of conformance to an ITT.	Has extensive experience of generating and leading supplier assessments, systematically using audits and reviews, to accurately determine the degree of conformance to an ITT.
Is aware of the need for independent technical advice and independent safety auditing.	Is familiar with the need for independent technical advice and independent safety auditing.	Has satisfactorily managed the provision of independent technical advice, independent safety auditing and an Airworthiness related external support contract, raising any safety issues for resolution.	Has extensive experience in ensuring the selection, appointment and management of competent safety panel, including appropriate use of Independent Safety Audit and Independent Technical Evaluation and ensuring that any legitimate safety concerns were resolved.

<b>ACS1.8: Failure Modes &amp; Effects</b>			
Has knowledge and understanding of the key failure modes associated with the applicable aerospace technical disciplines, and their effect on Airworthiness.			
<b>Awareness</b>	<b>Supervised Practitioner</b>	<b>Practitioner</b>	<b>Expert</b>
Has awareness of the key failure modes and mitigations associated with the applicable aerospace technical disciplines and their effect on Airworthiness.	Is developing a sound working knowledge and understanding of the key failure modes and mitigations associated with the applicable aerospace technical disciplines and their effect on Airworthiness.	Can demonstrate a sound knowledge and understanding of key failure modes and mitigations associated with the applicable aerospace technical disciplines and their effect on Airworthiness.	Has extensive knowledge and understanding of key failure modes and mitigations in a range of aerospace technical disciplines and their effect on Airworthiness.

<b>ACS1.8: Failure Modes &amp; Effects</b>			
Has knowledge and understanding of the key failure modes associated with the applicable aerospace technical disciplines, and their effect on Airworthiness.			
<b>Awareness</b>	<b>Supervised Practitioner</b>	<b>Practitioner</b>	<b>Expert</b>
Is aware of what can be done to successfully mitigate risks associated with different types of aerospace technical failures, including mitigations and engagement with the ADH/AM(MF).	Is developing a sound working knowledge and understanding to contribute to successfully mitigating risks associated with different types of aerospace technical failures, including mitigations and engagement with the ADH/AM(MF).	Can provide evidence of what they have done to successfully mitigate risks associated with different types of aerospace technical failures, including mitigations and engagement with the ADH/AM(MF).	Has extensive experience of successfully mitigating risks associated with different types of aerospace technical failures, including mitigations and engagement with the ADH/AM(MF).
Is aware of the need to complete trend analysis on aerospace technical failure modes in order to understand their effects on Airworthiness.	Is developing a sound working knowledge and understanding to contribute to trend analysis on aerospace technical failure modes in order to understand their effects on Airworthiness.	Can demonstrate that they have completed trend analysis on aerospace technical failure modes in order to understand their effects on Airworthiness.	Has extensive experience of completing trend analysis on aerospace technical failure modes and can provide advice and guidance on their effects on Airworthiness as a recognised subject matter expert.



## **ACS2 Type Airworthiness (TAW)**

### **Summary**

The Type Airworthiness function encompasses all the actions associated with the upkeep of a Type Design and the associated Approved Data through life

In discharging this accountability, key tasks for this function are:

- Type Certification
- Integrity Management
- Air System Document Set
- Production and Quality Assurance
- Airworthiness issue Management
- Design Config Management

**TASK-RELATED COMPETENCIES**

<b>ACS2.1: Type Certification</b>			
Satisfactorily delivers Type Certification activities			
<b>Awareness</b>	<b>Supervised Practitioner</b>	<b>Practitioner</b>	<b>Expert</b>
Is aware of the Military Air System Certification Process (MACP).	Has developing knowledge and understanding of the Military Air System Certification Process (MACP) and has applied it in support of the organisation.	Has a good working knowledge of the Military Air System Certification Process (MACP) and has actively applied it in the delivery of their duties.	Has extensive experience of the Military Air System Certification Process (MACP) as a recognised subject matter expert.
Can list Certification Specifications that would typically be applied on a project.	Has developing knowledge and understanding of the key standards and Certification Specifications that would typically be applied on a project.	Has good working knowledge of Def Stan 00-970 and the utility of other alternative Primary Certification Specifications (eg. US Standards) that could be applied on a project.	Is able to exercise independent judgement in applying Def Stan 00-970 and other alternative Primary Certification Specifications (eg. US Standards) that could be applied on a project.
Is aware of the purpose of a Type Certification Basis (TCB).	Has developing knowledge and understanding of the development of a Type Certification Basis (TCB), consisting of applicable Airworthiness Requirements, Military Certification Review Items (MCRIs), amendments and deviations.	Is able to develop a robust Type Certification Basis (TCB), consisting of applicable Airworthiness Requirements, Military Certification Review Items (MCRIs), amendments and deviations.	Has extensive experience of developing a complete Type Certification Basis (TCB), consisting of applicable Airworthiness Requirements, Military Certification Review Items (MCRIs), amendments and deviations.

<b>ACS2.1: Type Certification</b>			
Satisfactorily delivers Type Certification activities			
<b>Awareness</b>	<b>Supervised Practitioner</b>	<b>Practitioner</b>	<b>Expert</b>
Is aware of the need to demonstrate compliance with the Type Certification Basis (TCB) and the Means of Compliance (MC).	Has developing knowledge and understanding of the requirement for evidence to be developed showing compliance with the Type Certification Basis (TCB) and can support development of that evidence under supervision. Understands the occasions on which Means of Compliance (MC) need to be applied.	Is able to develop cogent arguments showing compliance with the TCB and understand how non-compliances are managed. Is able to advise on Means of Compliance (MC) required to show compliance with the Type Certification Basis (TCB) and satisfactorily monitor their delivery.	Has sufficient previous experience of applying the MACP and knowledge of the expected level of evidence to review and where appropriate, approve, TCB compliance evidence and managing any non-compliance. Has deep understanding of the Means of Compliance (MC) to show compliance with the Type Certification Basis (TCB).
Is aware of the principles, issues, theory and processes behind Air System Test & Evaluation (eg. different approaches to T&E, ITEA processes, systems engineering V&V diagram, roles and responsibilities of the different stakeholders in a Combined Test Team, the linkage between URD, SRD, Contract requirements, Test Requirements, Acceptance Criteria and the RTS).	Can demonstrate understanding of the principles, issues, theory and processes behind Air System Test & Evaluation (eg. different approaches to T&E, ITEA processes, systems engineering V&V diagram, roles and responsibilities of the different stakeholders in a Combined Test Team, the linkage between URD, SRD, Contract requirements, Test Requirements, Acceptance Criteria and the RTS).	Can demonstrate good understanding and knowledge of Testing & Evaluating aerospace components/systems and can provide evidence of how they have implemented this knowledge within the course of their duties (eg. previous experience of activities iaw an Integrated Test Evaluation & Acceptance Criteria or Integrated Test Evaluation & Acceptance Plan, applying software tools to aid the tracking of Test and Evaluation requirements (eg. DOORS or employment within a Combined Test Team)).	Has deep understanding in both breadth and depth of the Testing & Evaluating of aerospace components/systems/test equipment and can provide evidence of how they have used this knowledge within the course of their duties (eg. formulating an ITEAP, leading a Combined Test Team or been lead assessor for an aircraft type/system/component/test equipment).

<b>ACS2.1: Type Certification</b>			
Satisfactorily delivers Type Certification activities			
<b>Awareness</b>	<b>Supervised Practitioner</b>	<b>Practitioner</b>	<b>Expert</b>
Is aware how airworthiness decisions may best influence the lifecycle used for the specification, design (including design reviews), procurement, acceptance, etc, of Air Systems.	Can demonstrate an understanding of the lifecycle used for the specification, design (including design reviews), procurement, acceptance, etc, of Air Systems, sufficient to decide how and when decisions affecting Airworthiness are best influenced.	Can demonstrate a good knowledge and understanding of the lifecycle used for the specification, design (including design reviews), procurement, acceptance, etc, of Air Systems, sufficient to decide how and when decisions affecting Airworthiness are best influenced.	Has a deep understanding of the lifecycle used for the specification, design (including design reviews), procurement, acceptance, etc, of Air Systems, sufficient to decide how and when decisions affecting Airworthiness are best influenced.
Is aware of the need for ensuring an appropriate maintenance policy for the DAE.	Has a developing understanding of what constitutes an appropriate maintenance policy for the DAE.	Can demonstrate a good working knowledge and understanding of what constitutes an appropriate maintenance policy for the DAE.	Has extensive working knowledge of developing appropriate maintenance policies for the DAE.
Is aware of the need to articulate the requirements for maintenance, such that the requirements have been properly understood and addressed in a new design.	Has supported the articulation of the requirements for maintenance, such that the requirements have been properly understood and addressed in a new design.	Has articulated the requirements for maintenance, such that the requirements have been properly understood and addressed in a new design.	Leads engagement with the Design Organization on the requirements for maintenance, such that the maintenance requirements have been properly addressed in a new design.
Has an awareness of the need to apply understanding of project lifecycles, design engineering, verification and validation sufficient to produce a Certification Programme which includes all necessary activities and responsibilities.	Has supported the application of understanding of project lifecycles, design engineering, verification and validation sufficient to produce a Certification Programme which includes all necessary activities and responsibilities.	Is able to apply understanding of project lifecycles, design engineering, verification and validation sufficient to produce a Certification Programme which includes all necessary activities and responsibilities.	Has demonstrated a good understanding of project lifecycles, design engineering, verification and validation sufficient to produce a comprehensive Certification Programme which includes all necessary activities and responsibilities.

<b>ACS2.1: Type Certification</b>			
Satisfactorily delivers Type Certification activities			
<b>Awareness</b>	<b>Supervised Practitioner</b>	<b>Practitioner</b>	<b>Expert</b>
Is aware of the need to generate a Type Certification Exposition for a design change.	Has supported the generation of a Type Certification Exposition for a design change.	Is able to develop a Type Certification Exposition for a design change.	Has extensive experience of approving Type Certification Expositions across a range of design changes across the lifecycle.

<b>ACS2.2: Integrity Management</b>			
Satisfactorily delivers integrity management activities.			
<b>Awareness</b>	<b>Supervised Practitioner</b>	<b>Practitioner</b>	<b>Expert</b>
Can demonstrate a basic understanding and knowledge of achieving Structural Integrity, Propulsion Integrity and/or Systems Integrity within the aerospace environment, including the need for validating design assumptions about usage rates, failure modes and failure rates, Ageing Aircraft Audits, OSD Extension Programmes and Life Extension Programmes.	Is developing a sound knowledge and understanding of the theory/processes to achieve Structural Integrity, Propulsion Integrity and/or System Integrity, including the need for validating design assumptions about usage rates, failure modes and failure rates, Ageing Aircraft Audits, OSD Extension Programmes and Life Extension Programmes.	Can demonstrate good understanding and knowledge of Structural Integrity, Propulsion Integrity and/or Systems Integrity within the aerospace environment. Has applied the principles of ESVRE, including, for example, the validation of design assumptions about usage rates, failure modes and failure rates, Ageing Aircraft Audits, OSD Extension Programmes and Life Extension Programmes.	Has deep understanding in both breadth and depth of the processes to achieve Structural Integrity, Propulsion Integrity and/or Systems Integrity. Has applied the principles of ESVRE and has formulated and applied new approaches, including, for example, the validation of design assumptions about usage rates, failure modes and failure rates, Ageing Aircraft Audits, OSD Extension Programmes and Life Extension Programmes.

<b>ACS2.2: Integrity Management</b>			
Satisfactorily delivers integrity management activities.			
<b>Awareness</b>	<b>Supervised Practitioner</b>	<b>Practitioner</b>	<b>Expert</b>
Is aware of the different available technologies for equipment health monitoring and diagnosis.	Is developing a sound understanding and knowledge of the different available technologies for equipment health monitoring and diagnosis.	Has a practical understanding/knowledge of equipment for health monitoring and diagnosis and the interpretation of data produced by these systems.	Has deep understanding/knowledge for health monitoring/diagnosis and the interpretation of data produced by these systems.

<b>ACS2.3: Air System Document Set</b>			
Satisfactorily delivers the Type Airworthiness contribution to the Air System Document Set (ADS).			
<b>Awareness</b>	<b>Supervised Practitioner</b>	<b>Practitioner</b>	<b>Expert</b>
Is aware of the requirements within a Support Policy Statement	Is developing a sound knowledge and understanding of how a Support Policy Statement is generated.	Is able to develop, review and recommend approval of a Support Policy Statement.	Has extensive experience developing, reviewing and approving Support Policy Statements.
Is aware of how safety is addressed in all standard project releases and of the relationship between the management of ADS, Type Design Changes and the Type Airworthiness Safety Assessment.	Is developing a sound knowledge and understanding of how safety is addressed in all standard project releases and of the relationship between the management of ADS, Type Design Changes and the Type Airworthiness Safety Assessment.	Is able to develop, review and obtain approval of ADS documents which are coherent with the ADS management plan and other relevant processes. Achieves continuing alignment between the ADS, Type Design Changes and the Type Airworthiness Safety Assessment. Has identified and implemented improvements in the processes for handling the ADS, as required.	Has extensive experience developing, reviewing and obtaining approval of ADS documents which are coherent with the ADS management plan and other relevant processes. Achieves continuing alignment between the ADS, Type Design Changes and the Type Airworthiness Safety Assessment. Has identified and implemented improvements in the processes for handling the ADS, as required.

<b>ACS2.3: Air System Document Set</b>			
Satisfactorily delivers the Type Airworthiness contribution to the Air System Document Set (ADS).			
<b>Awareness</b>	<b>Supervised Practitioner</b>	<b>Practitioner</b>	<b>Expert</b>
Is aware of the process for generating ADS content and reviewing it for accuracy prior to acceptance, ensuring issues of safety have been properly addressed in ADS releases.	Is developing a sound knowledge and understanding of how ADS content should be reviewed for accuracy and completeness, ensuring issues of safety have been properly addressed in ADS releases. Can provide an example of personally having reviewed a document, taking account of the available supporting evidence, identifying areas of concern and taking appropriate action to address issues. and identified areas of concern. Knows how changes are approved prior to incorporation and release.	Is able to review ADS content for accuracy and completeness, ensuring issues of safety have been properly addressed in ADS releases. Can provide multiple examples of personally having reviewed a document, taking account of the available supporting evidence, identifying areas of concern, taking appropriate action to address issues and recommending for incorporation and release.	Has been consulted and provides advice on how the review and approval of ADS documents should be undertaken, ensuring issues of safety have been properly addressed in ADS releases. Has extensive experience of personally reviewing documents, taking account of the available supporting evidence, identifying areas of concern, taking appropriate action to address issues and approving incorporation and release (eg. has managed the review of a complete ADS package (eg. MPTF or RTSR)).
Is aware of the process for assessing deviation requests based on an assessment of risk to life.	Is developing a sound knowledge and understanding of the assessment of risk for a deviation from ADS-defined operating and maintenance safety requirements based on an assessment of risk to life.	Is able to assess the risk to life for a deviation from ADS-defined operating and maintenance safety requirements.	Establishes appropriate arrangements for assessing and, where appropriate, acting upon requests to deviate from operating and maintenance safety requirements defined in the ADS. Accurately assesses the equipment contribution to risk to life associated with such deviations.

<b>ACS2.3: Air System Document Set</b>			
Satisfactorily delivers the Type Airworthiness contribution to the Air System Document Set (ADS).			
<b>Awareness</b>	<b>Supervised Practitioner</b>	<b>Practitioner</b>	<b>Expert</b>
Is aware of arrangements for retaining ADS content under appropriate document control.	Has supported arrangements for placing the ADS under appropriate document control, including version control, storage and retrieval, distribution, handling of amendments/Special Instructions (Technical), issue control and archiving. Has experience supporting resolution of problems with the management of ADS documentation.	Has managed arrangements under the ADS Management Plan and arrangements for placing the ADS under appropriate document management arrangements, including version control, storage and retrieval, distribution, handling of amendments/Special Instructions (Technical), issue control and archiving. Has experience resolving problems with the management of ADS documentation.	Establishes the ADS Management Plan and arrangements for placing the ADS under appropriate document management arrangements, including version control, storage and retrieval, distribution, handling of amendments/Special Instructions (Technical), issue control and archiving. Provides authoritative advice on how problems with the management of ADS documentation should be addressed.
Is aware of the need to manage the process for the development and upkeep of ADS documentation, for the correction for any agreed deficiencies, to seek improvements and for retaining alignment with changes in other management processes both internal and external to the MOD.	Is developing a sound knowledge and understanding of the process for the development and upkeep of ADS documentation, for the correction for any agreed deficiencies, to seek improvements and for retaining alignment with changes in other management processes both internal and external to the MOD.	Is able to manage the process for the development and upkeep of ADS documentation, for the correction for any agreed deficiencies, and for retaining alignment with changes in other management processes both internal and external to the MOD. Is able to provide advice on improvements that affect the handling of the ADS.	Has been instrumental in setting up a process for the development and upkeep of ADS documentation, for the correction for any agreed deficiencies, and for retaining alignment with changes in other management processes both internal and external to the MOD. Has advised on improvements to the accountabilities and responsibilities as they affect the handling of the ADS.



<b>ACS2.3: Air System Document Set</b>			
Satisfactorily delivers the Type Airworthiness contribution to the Air System Document Set (ADS).			
<b>Awareness</b>	<b>Supervised Practitioner</b>	<b>Practitioner</b>	<b>Expert</b>
<p><b>Civil Derivatives.</b> Is aware of the need to ensure that the Air System Type Design complies with all applicable Certification Airworthiness Regulatory requirements, through-life; for Air Systems with civil Type Certificates, this includes appropriate civil mandatory, advisory and deferred instructions (eg Airworthiness Directives (AD) and Service Bulletins (SB)).</p>	<p><b>Civil Derivatives.</b> Is developing a sound knowledge and understanding of the process for ensuring that the Air System Type Design complies with all applicable Certification Airworthiness Regulatory requirements, through-life; for Air Systems with civil Type Certificates, this includes appropriate civil mandatory, advisory and deferred instructions (eg Airworthiness Directives (AD) and Service Bulletins (SB)).</p>	<p><b>Civil Derivatives.</b> Is able to manage the process to ensure that the Air System Type Design complies with all applicable Certification Airworthiness Regulatory requirements, through-life; for Air Systems with civil Type Certificates, this includes appropriate civil mandatory, advisory and deferred instructions (eg Airworthiness Directives (AD) and Service Bulletins (SB)).</p>	<p><b>Civil Derivatives.</b> Has extensive experience ensuring that the Air System Type Design complies with all applicable Certification Airworthiness Regulatory requirements, through-life; for Air Systems with civil Type Certificates, this includes appropriate civil mandatory, advisory and deferred instructions (eg Airworthiness Directives (AD) and Service Bulletins (SB)).</p>

<b>ACS2.4: Production Quality Assurance</b>			
Satisfactorily assures production of aircraft, parts and materiel.			
<b>Awareness</b>	<b>Supervised Practitioner</b>	<b>Practitioner</b>	<b>Expert</b>
<p>Is aware of the MOD's policies and processes for oversight of the PO's QMS, including arrangements for:</p> <ul style="list-style-type: none"> <li>- Appropriate collaboration between the DO and PO.</li> <li>- First article Inspection.</li> <li>- Readiness to commence production.</li> <li>- Arrangements for assuring conformity of parts to the design.</li> <li>- Acceptance of production deviations.</li> <li>- Certifying parts as airworthy.</li> <li>- Retention of production records.</li> <li>- Configuration Audit.</li> </ul>	<p>Is developing a sound knowledge and understanding of the MOD's policies and processes for oversight of the PO's QMS, including arrangements for:</p> <ul style="list-style-type: none"> <li>- Appropriate collaboration between the DO and PO.</li> <li>- First article Inspection.</li> <li>- Readiness to commence production.</li> <li>- Arrangements for assuring conformity of parts to the design.</li> <li>- Acceptance of production deviations.</li> <li>- Certifying parts as airworthy.</li> <li>- Retention of production records.</li> <li>- Configuration Audit.</li> </ul>	<p>Manages the oversight of the Production Organization's QMS within their area of responsibility, including arrangements for:</p> <ul style="list-style-type: none"> <li>- Appropriate collaboration between the DO and PO.</li> <li>- First Article Inspection.</li> <li>- Readiness to commence production.</li> <li>- Arrangements for assuring conformity of parts to the design.</li> <li>- Acceptance of production deviations.</li> <li>- Certifying parts as airworthy.</li> <li>- Retention of production records.</li> <li>- Configuration Audit.</li> </ul>	<p>Has established and implemented policies and procedures to ensure the Production Organization's QMS, including arrangements for:</p> <ul style="list-style-type: none"> <li>- Appropriate collaboration between the DO and PO.</li> <li>- First article Inspection.</li> <li>- Readiness to commence production.</li> <li>- Arrangements for assuring conformity of parts to the design.</li> <li>- Acceptance of production deviations.</li> <li>- Certifying parts as airworthy.</li> <li>- Retention of production records.</li> <li>- Configuration Audit.</li> </ul>

<b>ACS2.4: Production Quality Assurance</b>			
Satisfactorily assures production of aircraft, parts and materiel.			
<b>Awareness</b>	<b>Supervised Practitioner</b>	<b>Practitioner</b>	<b>Expert</b>
Is aware of processes for accepting newly manufactured products, parts and appliances, the need for correct identification, for conducting surveys prior to acceptance and for configuration audit activities.	Is developing a sound knowledge and understanding of the support processes for accepting newly manufactured products, parts and appliances, ensuring the correct identification, for conducting surveys prior to acceptance and for configuration audit activities.	Has managed the support processes for accepting newly manufactured products, parts and appliances, ensuring the correct identification, for conducting surveys prior to acceptance and for configuration audit activities.	Has deep understanding in both breadth and depth of the support processes for accepting newly manufactured products, parts and appliances, ensuring the correct identification, for conducting surveys prior to acceptance and for configuration audit activities.
Is aware of the factors to be considered when considering accepting newly manufactured materiel that does not conform to the design.	Is developing a sound knowledge and understanding of the support processes for accepting materiel that does not conform to the design.	Is able to manage the support processes for accepting materiel that does not conform to the design.	Has established and implemented the support processes for accepting materiel that does not conform to the design.

<b>ACS2.5: Airworthiness Issue Management</b>			
Takes satisfactory responses to Airworthiness issues.			
<b>Awareness</b>	<b>Supervised Practitioner</b>	<b>Practitioner</b>	<b>Expert</b>
Is aware of the requirement for the investigation of failures, malfunctions and defects and is able to support their application.	Is developing a sound knowledge and understanding of the most appropriate course of action following a failure, malfunction or defect and prepare an appropriate draft response.	Is able to direct the most appropriate course of action following a failure, malfunction or defect and prepare an appropriate response.	Has extensive experience, approving and releasing the most appropriate course of action following a failure, malfunction or defect.

<b>ACS2.6: Design Configuration Management</b>			
Satisfactorily delivers design configuration management activities.			
<b>Awareness</b>	<b>Supervised Practitioner</b>	<b>Practitioner</b>	<b>Expert</b>
Is aware of the importance of an assessment of a design change with regard to Air Safety and can illustrate (with real or hypothetical examples) where a deficiency or change to an Air System has resulted in a reduced safety margin and an incident where individuals were harmed.			
Is aware of the importance of an assessment of a design change with regard to Air Safety and can illustrate (with real or hypothetical examples) where a deficiency or change to an Air System has resulted in a reduced safety margin leading to an incident where individuals were harmed.	Is developing a sound knowledge and understanding of the importance of an assessment of a design change with regard to Air Safety and can illustrate (with real or hypothetical examples) where a deficiency or change to an Air System has resulted in a reduced safety margin leading to an incident where individuals were harmed.	Can demonstrate a good understanding and knowledge of the importance of an assessment of a design change with regard to Air Safety and can illustrate (with real or hypothetical examples) where a deficiency or change to an Air System has resulted in a reduced safety margin leading to an incident where individuals were harmed.	Has deep understanding in both breadth and depth of the importance of an assessment of a design change with regard to Air Safety and can illustrate (with real or hypothetical examples) where a deficiency or change to an Air System has resulted in a reduced safety margin leading to an incident where individuals were harmed.
Is aware of how proposed changes to the Type Design (ie modifications and repairs) are handled, including the systematic analysis of proposed Air System changes to assess their impact.	Is developing a sound knowledge and understanding of supporting proposed changes to the Type Design (ie modifications and repairs), including the systematic analysis of proposed Air System changes to assess their impact.	Has proposed changes to the Type Design (ie modifications and repairs) and the systematic analysis of proposed Air System changes to assess their impact.	Has extensive experience proposing and approving changes to the Type Design (ie modifications and repairs), including the systematic analysis of proposed Air System changes to assess their impact.  Has been instrumental in instigating improvements in procedures for handling requests to change Air System designs, based on experience gained from their previous application.

<b>ACS2.6: Design Configuration Management</b>			
Satisfactorily delivers design configuration management activities.			
<b>Awareness</b>	<b>Supervised Practitioner</b>	<b>Practitioner</b>	<b>Expert</b>
Is aware of configuration management activities, is familiar with the Configuration Management Plan (CMP) against the requirements of Def Stan 05-057, the processes for managing changes to an Air System and the assessment modifications and repair schemes for Airworthiness prior to approval.	Has supported configuration management activities, the implementation of the Configuration Management Plan (CMP) against the requirements of Def Stan 05-057, the processes for managing changes to an Air System, and has assisted the assessment modifications and repair schemes for Airworthiness prior to approval.	Is able to manage delivery of configuration management activities. Has reviewed a Configuration Management Plan (CMP) against the requirements of Def Stan 05-057 and recommended improvements.  Can define the “as flown” configuration of an Air System. Manages the processes for the management of changes to an Air System.  Can conduct a well-judged assessment of modifications and repair schemes for Airworthiness prior to approval.	Has extensive experience in the delivery of configuration management activities.  Is capable of establishing and implementing a Configuration Management Plan (CMP) against the requirements of Def Stan 05-057, and reviewing and accepting a Design Organization CMP so that they achieve satisfactory levels of control over all design changed, including repairs and modifications to an Air System.  Has extensive experience of assessing and approving modifications and repair schemes for Airworthiness.
Is aware of the purpose of the Configuration Control Board (CCB) for the control of changes to an Air System.	Has supported the Configuration Control Board (CCB) for the control of changes to an Air System.	Is able to chair a Configuration Control Board (CCB) for the control of changes to an Air System.	Has extensive experience chairing Configuration Control Boards (CCB) for the control of changes to an Air System.

### ACS3 Continuing Airworthiness (CAw) Support

#### Summary

The CAw function encompasses those competencies necessary to provide satisfactory support to the Aviation Duty Holder/AM(MF)/MilCAM to facilitate the delivery of a safe environment within which Airworthiness may be sustained.

#### TASK-RELATED COMPETENCIES

<b>ACS3.1: Continuing Airworthiness Support</b>			
Provides satisfactory support to the Aviation Duty Holder/AM(MF)/MilCAM.			
<b>Awareness</b>	<b>Supervised Practitioner</b>	<b>Practitioner</b>	<b>Expert</b>
Is aware of need to support the Aviation Duty Holder/AM(MF) in their accountable role for the safe operation, Continuing Airworthiness and Maintenance of Air Systems.	Is developing a sound understanding of need to support the Aviation Duty Holder/(AM(MF) in their accountable role for the safe operation, Continuing Airworthiness and Maintenance of Air Systems.	Can demonstrate good understanding of the need to support the Aviation Duty Holder/AM(MF) in their accountable role for the safe operation, Continuing Airworthiness and Maintenance of Air Systems.	Has extensive experience of supporting the Aviation Duty Holder/AM(MF) in their accountable role for the safe operation, Continuing Airworthiness and Maintenance of Air Systems.
Is aware of the different responsibilities of the Maintenance Organization, Continuing Airworthiness Management Organization and the applicable approval schemes.	Is developing a sound understanding of the Maintenance Organization, Continuing Airworthiness Management Organization and the applicable approval schemes.	Can demonstrate good understanding and knowledge of the Maintenance Organization, Continuing Airworthiness Management Organization and the applicable approval schemes.	Has extensive understanding and knowledge of the Maintenance Organization, Continuing Airworthiness Management Organization and the applicable approval schemes.
Is aware of the processes for providing advice on issues of Airworthiness for 'as maintained' requirements.	Has supported generation of effective advice on issues of Airworthiness for 'as maintained' requirements.	Has generated effective advice on issues of Airworthiness has been provided personally for 'as maintained' requirements.	Is generally recognised as a source of sound advice on issues of Airworthiness 'as maintained' requirements. Has established an effective system for providing advice on 'as maintained' requirement.

<b>ACS3.1: Continuing Airworthiness Support</b>			
Provides satisfactory support to the Aviation Duty Holder/AM(MF)//MilCAM.			
<b>Awareness</b>	<b>Supervised Practitioner</b>	<b>Practitioner</b>	<b>Expert</b>
Has an awareness of the requirements for supporting the Continuing Airworthiness and maintenance of Air Systems, particularly the provision of all relevant technical information.	Is developing a sound understanding and knowledge of supporting the Continuing Airworthiness and maintenance of Air Systems, particularly the provision of all relevant technical information.	Can demonstrate good understanding and knowledge of supporting the Continuing Airworthiness and maintenance of Air Systems, particularly with practical application of supporting the provision of all relevant technical information.	Has deep understanding in both breadth and depth of supporting the Continuing Airworthiness and maintenance of Air Systems, particularly the provision of all relevant technical information.
Has awareness of the need to ensure that all Continuing Airworthiness risks are captured, communicated and mitigated effectively.	Is developing a sound understanding of the need to ensure that all Continuing Airworthiness risks are captured, communicated and mitigated effectively.	Can demonstrate good understanding of the need to ensure that all Continuing Airworthiness risks are captured, communicated and mitigated effectively.	Has a deep understanding of the need to ensure that all Continuing Airworthiness risks are captured, communicated and mitigated effectively.
Has awareness of the DT's responsibilities for Continuing Airworthiness support and the associated training (if relevant to position).	Is developing a sound knowledge and understanding of the DT's responsibilities for Continuing Airworthiness support and the associated training (if relevant to position).	Can demonstrate a good understanding and has completed all associated training for DT's responsibilities for Continuing Airworthiness support (if relevant to position).	Has a deep understanding and has completed all associated training for DT's responsibilities for Continuing Airworthiness support (if relevant to position).
Has awareness of the need to support the issuance of the Statement of Acceptance at Baseline Military Airworthiness Review.	Is developing a sound knowledge and understanding of the need to support the issuance of the Statement of Acceptance at Baseline Military Airworthiness Review.	Can demonstrate a good understanding of the need to support the issuance of the Statement of Acceptance at Baseline Military Airworthiness Review.	Has a deep understanding of the need to support the issuance of the Statement of Acceptance at Baseline Military Airworthiness Review.

**ACS4 Aircraft Systems. (Not required for issue of an LOE)**

**Summary**

The Aircraft System function encompasses the knowledge and understanding of Aircraft System(s) that when required in a role ensures safe and effective military aircraft operation.

**TASK-RELATED COMPETENCIES**

<b>ACS4.1: Aircraft Systems</b>			
Has knowledge and understanding of Aircraft System(s) that when required in their assigned role ensures safe and effective military aircraft operation  (Note: Where Air System Type Specific Managers' Courses are not available to assist in generating this competence, an appropriate level of technical familiarization <b>should</b> be achieved for each Air System type).			
<b>Awareness</b>	<b>Supervised Practitioner</b>	<b>Practitioner</b>	<b>Expert</b>
Has an awareness of the relevant Air System.	Is developing a sound understanding and knowledge of the relevant Air System.	Can demonstrate a good understanding and knowledge of the relevant Air System.	Can demonstrate a deep understanding in both breadth and depth of the relevant Air System.
Has an awareness of specifying, designing, testing or maintaining Aircraft System(s), including environmental, operational and physical influences.	Is developing a sound understanding and knowledge of specifying, designing, testing or maintaining Aircraft System(s), including environmental, operational, physical influences, the UK design and regulatory framework and the downstream implications on maintenance, operational limitations and ADS.	Can demonstrate a good understanding and knowledge of specifying, designing, testing or maintaining Aircraft System(s), including environmental, operational, physical influences, the UK design and regulatory framework and the downstream implications on maintenance, operational limitations and ADS.	Has a deep understanding in both breadth and depth of specifying, designing, testing or maintaining Aircraft System(s), including environmental, operational, physical influences, the UK design and regulatory framework and the downstream implications on maintenance, operational limitations and ADS.



<b>ACS4.1: Aircraft Systems</b>			
Has knowledge and understanding of Aircraft System(s) that when required in their assigned role ensures safe and effective military aircraft operation  (Note: Where Air System Type Specific Managers' Courses are not available to assist in generating this competence, an appropriate level of technical familiarization <b>should</b> be achieved for each Air System type).			
<b>Awareness</b>	<b>Supervised Practitioner</b>	<b>Practitioner</b>	<b>Expert</b>
Has an awareness of the different Aircraft System(s) architectures and technologies available.	Is developing a sound understanding and knowledge of the different Aircraft System(s) architectures and technologies available.	Can demonstrate a good understanding and knowledge of the different Aircraft System(s) architectures and technologies available.	Has a deep understanding in both breadth and depth of the different Aircraft System(s) architectures and technologies available.
Is aware how Equipment Not Basic to the Air System (ENBAS)/weapons may influence Aircraft System(s).	Is developing a sound understanding and knowledge of how Equipment Not Basic to the Air System (ENBAS)/weapons may influence Aircraft System(s).	Can demonstrate a good understanding and knowledge of how Equipment Not Basic to the Air System (ENBAS)/weapons may influence Aircraft System(s).	Has a deep understanding in both breadth and depth how Equipment Not Basic to the Air System (ENBAS)/weapons may influence Aircraft System(s).

## ACS5 Air Safety Management

### Summary

The Air Safety Management function encompasses knowledge and understanding of specialist safety management requirements and techniques.

### TASK-RELATED COMPETENCIES

<b>ACS5.1: Air Safety Management Techniques</b>			
Has sufficient knowledge and understanding of specialist safety management requirements and techniques.			
<b>Awareness</b>	<b>Supervised Practitioner</b>	<b>Practitioner</b>	<b>Expert</b>
Is aware of the requirements for an Airworthiness Strategy	Is developing a sound knowledge and understanding of the requirement for and development of an Airworthiness Strategy.	Has been actively involved in the establishment, development and/or upkeep of an Airworthiness strategy.	Has developed, endorsed and gained OCD approval of an Airworthiness strategy for at least one Air System.
Is aware of the requirements for an Air Safety Management System.	Is developing a sound knowledge and understanding of Air Safety Management Systems and their key features.	Can demonstrate a good knowledge and understanding of the Air Safety Management System by consistently providing correct advice on its interpretation. Has successfully developed and implemented parts of an Air Safety Management System.	Has successfully developed and implemented at least one Air Safety Management System and/or made significant contributions to parts of multiple Air Safety Management Systems.

<b>ACS5.1: Air Safety Management Techniques</b>			
Has sufficient knowledge and understanding of specialist safety management requirements and techniques.			
<b>Awareness</b>	<b>Supervised Practitioner</b>	<b>Practitioner</b>	<b>Expert</b>
Is aware of the purpose of the Type Airworthiness Safety Assessment (TASA), when it needs to be issued, the contribution it makes to the Air System Safety Case (ASSC) and the need for the ADH/AM(MF) to sentence the residual risks ALARP and Tolerable.	Is developing a sound knowledge and understanding of the Type Airworthiness Safety Assessment (TASA), when it needs to be issued, how it is managed, the contribution it makes to the Air System Safety Case (ASSC) and the need for the ADH/AM(MF) to sentence the residual risks ALARP and Tolerable.	Has contributed to the management of the Type Airworthiness Safety Assessment (TASA) including contributing to the development/update, supporting the contribution it makes to the Air System Safety Case (ASSC) and having had the ADH/AM(MF) sentencing the residual risks ALARP and Tolerable.	Has extensive expertise in managing the development, acceptance and update (eg. Initial issue, update for minor/major change) of the Type Airworthiness Safety Assessments (TASA), supporting the contribution it makes to the Air System Safety Case (ASSC) and having had the ADH/AM(MF) sentencing the residual risks ALARP and Tolerable .
Is aware of the requirement for a typical Air System threat log and threat analysis principles, including the contribution it makes to the Air System Safety Case (ASSC) and the need for the ADH/AM(MF) to sentence the residual risks ALARP and Tolerable.	Is developing a sound knowledge and understanding of the threat log and is familiar with threat analysis principles, including the contribution it makes to the Air System Safety Case (ASSC) and the need for the ADH/AM(MF) to sentence the residual risks ALARP and Tolerable.	Can demonstrate good understanding and knowledge of threats and the equipment contribution to hazards, sufficient to produce a concise but comprehensive threat log, including developing well-reasoned hazard analysis and resolution of issues. Has been responsible for the maintenance of at least one Air System Threat log, including communicating the outputs to the Air System Safety Case (ASSC) to enable the ADH/AM(MF) to sentence the residual risks ALARP and Tolerable.	Has a deep understanding in both breadth and depth of threats and the equipment contribution to hazards, sufficient to produce a concise but comprehensive threat log, including developing complete and accurate hazard analysis and resolution of issues. Has been responsible for the development and upkeep of an Air System threat log on one major or several minor projects, including communicating the outputs to the Air System Safety Case (ASSC) to enable the ADH/AM(MF) to sentence the residual risks ALARP and Tolerable.

<b>ACS5.1: Air Safety Management Techniques</b>			
Has sufficient knowledge and understanding of specialist safety management requirements and techniques.			
<b>Awareness</b>	<b>Supervised Practitioner</b>	<b>Practitioner</b>	<b>Expert</b>
Is aware of the need for Air Systems to be designed to acceptable Design Safety Targets.	Is developing a sound knowledge and understanding of how Air Systems are designed to acceptable Design Safety Targets.	Can demonstrate good understanding and knowledge of how Air Systems are designed to acceptable Design Safety Targets, including contributing to the upkeep of such evidence for one Air System.	Has a deep understanding in both breadth and depth of how Air Systems are designed to acceptable Design Safety Targets, including contributing to the upkeep of such evidence for several Air Systems with knowledge of the different approaches (eg. UK25.1309, Foreign Military Sales).
Is aware of the need to demonstrate that Air System Software/Complex Electronic Hardware are designed to acceptable Design Targets in the form of Design Assurance Levels.	Is developing a sound knowledge and understanding of how Air System Software/Complex Electronic Hardware are designed to acceptable Design Targets in the form of Design Assurance Levels.	Can demonstrate good understanding and knowledge of how Air System Software/Complex Electronic Hardware are designed to acceptable Design Targets in the form of Design Assurance Levels, including contributing to the development of such evidence for one Air System.	Has a deep understanding in both breadth and depth of how Air Systems Software/Complex Electronic Hardware are designed to acceptable Design Targets in the form of Design Assurance Levels, including contributing to the upkeep of such evidence for several Air Systems with knowledge of the different approaches (eg. Adapting available evidence from civil/Foreign Military Sale clearances).
Is aware of specialist techniques and methodologies that need to be applied during the conduct of applicable Air Safety procedures (eg Loss Models, GSNs, Bowties etc).	Is developing a sound knowledge and understanding of specialist techniques and methodologies that need to be applied during the conduct of applicable Air Safety procedures (eg Loss Models, GSNs, Bowties etc).	Can demonstrate good understanding and knowledge of specialist techniques and methodologies, having applied them during the conduct of applicable Air Safety procedures (eg Loss Models, GSNs, Bowties etc).	Has a deep understanding in both breadth and depth of specialist techniques and methodologies, having applied them during the conduct of applicable Air Safety procedures (eg Loss Models, GSNs, Bowties etc).

## ACS6 Release To Service and Military Permit to Fly Management

### Summary

The Release To Service (RTS) and Military Permit to Fly (MPTF) management function encompasses knowledge and understanding of preparing RTS/MPTF (In-Service) Recommendations.

### TASK-RELATED COMPETENCIES

<b>ACS6.1:</b>			
Has sufficient knowledge and understanding of Release To Service (RTS)/Military Permit to Fly (MPTF) Recommendations, requirements and techniques.			
<b>Awareness</b>	<b>Supervised Practitioner</b>	<b>Practitioner</b>	<b>Expert</b>
Is aware of the requirements for generating RTS or MPTF (In-Service) Recommendations.	Is developing a sound knowledge and understanding of the principles for generating RTS or MPTF (In-Service) Recommendations.	Has contributed to the generation, submission and acceptance of RTS or MPTF (In-Service) Recommendations for a Major Change.	Has successfully generated, submitted via OCD, and had accepted a RTS or MPTF (In-Service) Recommendations for a new Air System and/or Air System mark change.
Is aware of the requirements for generating RTS or MPTF (In-Service) Special Clearances.	Is developing a sound knowledge and understanding of the principles for generating RTS or MPTF (In-Service) Special Clearances.	Has contributed to the generation, submission and acceptance of RTS or MPTF (In-Service) Special Clearances.	Has successfully generated, submitted and had accepted a RTS or MPTF (In-Service) Special Clearance.
Is aware of the requirements for generating RTS or MPTF (In-Service) clearances for ENBAS.	Is developing a sound knowledge and understanding of the principles for generating RTS or MPTF (In-Service) clearances for ENBAS.	Has contributed to the generation, submission and acceptance of RTS or MPTF (In-Service) clearances for ENBAS.	Has successfully generated, submitted and had accepted a RTS or MPTF (In-Service) clearances for ENBAS.

<b>ACS6.1:</b>			
Has sufficient knowledge and understanding of Release To Service (RTS)/Military Permit to Fly (MPTF) Recommendations, requirements and techniques.			
<b>Awareness</b>	<b>Supervised Practitioner</b>	<b>Practitioner</b>	<b>Expert</b>
Is aware of the requirements for generating RTS or MPTF (In-Service) clearances for Air Launched Weapons (if relevant to position).	Is developing a sound knowledge and understanding of the principles for generating RTS or MPTF (In-Service) clearances for Air Launched Weapons (if relevant to position).	Has contributed to the generation, submission and acceptance of RTS or MPTF (In-Service) clearances for Air Launched Weapons (if relevant to position).	Has successfully generated, submitted and had accepted a RTS or MPTF (In-Service) clearances for Air Launched Weapons (if relevant to position).
Is aware of the requirements for generating RTS or MPTF (In-Service) clearances for PBN / RVSM (if relevant to position).	Is developing a sound knowledge and understanding of the principles for generating RTS or MPTF (In-Service) clearances for PBN / RVSM (if relevant to position).	Has contributed to the generation, submission and acceptance of RTS or MPTF (In-Service) clearances for PBN / RVSM (if relevant to position).	Has successfully generated, submitted and had accepted a RTS or MPTF (In-Service) clearances for PBN / RVSM (if relevant to position).
Is aware of the requirements for generating Ship Air-Release clearances for Embarked Aviation in Her Majesty's / MOD Ships (if relevant to position).	Is developing a sound knowledge and understanding of the principles for generating Ship Air-Release clearances for Embarked Aviation in Her Majesty's / MOD Ships (if relevant to position).	Has contributed to the generation, submission and acceptance of Ship Air-Release clearances for Embarked Aviation in Her Majesty's / MOD Ships (if relevant to position).	Has successfully generated, submitted and had accepted a Ship Air-Release clearance for Embarked Aviation in Her Majesty's / MOD Ships (if relevant to position).
Is aware of the content of and requirements for generating MPTF (Development), including the relationship to the RTS and Air System Safety Case.	Is developing a sound knowledge and understanding the content and principles for generating MPTF (Development), including the relationship to the RTS and Air System Safety Case.	Has contributed to the generation and approval of a MPTF (Development), including ensuring the integrity of the relationship to the RTS and Air System Safety Case.	Has successfully generated and approved a MPTF (Development), including ensuring the relationship to the RTS and Air System Safety Case.

<b>ACS6.1:</b>			
Has sufficient knowledge and understanding of Release To Service (RTS)/Military Permit to Fly (MPTF) Recommendations, requirements and techniques.			
<b>Awareness</b>	<b>Supervised Practitioner</b>	<b>Practitioner</b>	<b>Expert</b>
Is aware of the content of, and requirements for generating MPTF (In-Service), (Special Case Flying) or (Single Task) (if relevant to position).	Is developing a sound knowledge and understanding of the content of, and principles for generating MPTF (In-Service), (Special Case Flying) or (Single Task) (if relevant to position).	Has contributed to the generation and approval of a MPTF (In-Service), (Special Case Flying) or (Single Task) (if relevant to position).	Has successfully generated and approved a MPTF (In-Service), (Special Case Flying) or (Single Task) (if relevant to position).