



Military Airworthiness Management Course: Type Certification and Military CAMO

14 – 18 February 2027

Riyadh - KAFD district five-star



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Introduction:

Military airworthiness management, covering type certification and military CAMO oversight, is a 1-week course for air arm engineering, airworthiness authority, quality and defence contractor teams that ends with a Military Airworthiness Management Plan for a case air arm. Defence aviation organisations face fleet groundings, delayed capability entry and authority findings when the type design baseline is unclear and modifications bypass design approval. Nominees already manage or oversee state aircraft fleets and work through case studies built on certification files, expositions and audit records. CoreConcept Training Center delivers this military airworthiness management course.

Course Objectives:

- Map a military airworthiness regulation model, such as EMAR or DASR, onto the authority, operators, design, production and maintenance organisations of an air arm
- Establish the military type certification basis, certification specifications and means of compliance for a new or acquired state aircraft type
- Classify military aircraft modifications as major or minor and route them through design approval, military permit to fly and flight test clearance
- Structure a military continuing airworthiness management organisation and its maintenance organisation equivalents with accountable managers, expositions and airworthiness reviews
- Assess airworthiness risk using ALARP arguments and safety cases when a fleet operates outside its approved type design
- Plan airworthiness assurance audits of military design, maintenance and contractor organisations and grade findings with corrective action deadlines

Target Audience:

- Air arm engineering teams responsible for the type design baseline, modifications and fleet technical authority
 - Military airworthiness authority teams responsible for organisation approvals, certification decisions and regulatory oversight
 - Continuing airworthiness management teams in military operating units responsible for airworthiness reviews and fleet airworthiness status
 - Defence maintenance, repair and overhaul contractors responsible for approved maintenance of state aircraft
 - Defence aerospace design and production contractors responsible for modification design and certification evidence
 - Military aviation quality and assurance teams responsible for audit programmes and finding closure
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Course Outline:

Day 1: State Aircraft Airworthiness Context and Authority Structures

- State Aircraft Versus Civil Aircraft Airworthiness Boundaries
- Military Airworthiness Authority Independence, Charter and Regulatory Publications
- Recognition Between Military Airworthiness Authorities and Mutual Acceptance
- Air Arm Airworthiness Accountability Chain From Senior Duty Holder Down
- Current-State Gap Assessment of an Air Arm Airworthiness System

Day 2: EMAR and DASR Regulation Models and Organisation Approvals

- EMAR and DASR Structure Mirroring Civil Part Requirements
- Military Design Organisation Approval Scope and Privileges
- Military Production Organisation Approval and Statement of Conformity
- Military CAMO Exposition, Accountable Manager and Airworthiness Review Staff
- Military Part 145 Equivalent Maintenance Organisation and Licensed Personnel

Day 3: Military Type Certification and Modification Approval

- Military Type Certification Basis Freezing and Certification Specifications
- Means of Compliance Matrix and Certification Evidence Files
- Military Type Certificate Data Sheet and Configuration Baseline
- Major and Minor Modification Classification Using Design Change Criteria
- Military Permit to Fly and Flight Test Clearance Conditions

Day 4: Airworthiness Risk, Assurance Audits and Problem Fleets

- ALARP Safety Case Arguments for Operating Outside Type Design
- Legacy and Foreign-Origin Fleets Without Full Certification Evidence
- Airworthiness Assurance Audit Programme Across Design and Maintenance Organisations
- Finding Level Grading, Root Cause and Corrective Action Deadlines
- Contractor Oversight Clauses in Defence Aircraft Support Contracts

Day 5: Case Study: Military Airworthiness Management Plan for a Case Air Arm

- Case Air Arm Regulation Model Mapping and Accountability Review
 - Case Fleet Certification Basis and Modification Backlog Analysis
 - Military CAMO and Maintenance Organisation Approval Roadmap
 - Assurance Audit Schedule and Contractor Oversight Plan Drafting
 - Military Airworthiness Management Plan Completion and Panel Defence
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Skills You Will Gain:

- Airworthiness Regulation Mapping
- Certification Basis Definition
- Means of Compliance Planning
- Modification Classification
- Military CAMO Structuring
- Airworthiness Safety Case Review
- Assurance Audit Planning
- Defence Contractor Oversight

Why Attend This Course:

- Deliver a Military Airworthiness Management Plan for a case air arm to the senior duty holder and the head of the airworthiness authority for approval
- Decide which certification basis applies, whether a modification is major or minor and when a military permit to fly is justified
- Avoid fleet groundings, delayed capability entry and authority findings caused by unapproved modifications or unclear airworthiness accountability
- Brief engineering, authority and contractor colleagues using regulation maps, compliance matrices and audit grading templates

Conclusion:

Back at work, the participant presents the Military Airworthiness Management Plan to the senior duty holder and the head of the airworthiness authority. Leadership uses it to approve the regulation model, the certification basis for fleets entering service, the organisation approval roadmap and the assurance audit schedule for design, maintenance and contractor organisations. After the first audit cycle under the plan, the organisation should review finding levels, closure times, open modifications and fleet airworthiness status against the plan and revise the weaker elements.

Frequently Asked Questions FAQ:

What should participants know before a military airworthiness management course on type certification and military CAMO?

Participants should already work in air arm engineering, an airworthiness authority, a defence contractor or military aviation quality and understand basic aircraft maintenance and design documents. An anonymised exposition, modification record or audit report helps during the case study day.

How does military airworthiness management differ from a civil aircraft maintenance management course?

It covers how state aircraft are regulated by a military authority: regulation models, military type certification, modification approval, permits to fly, organisation approvals and authority assurance. Civil maintenance courses concentrate on airline maintenance programmes, check planning and repair station contracts under civil rules.

Why does military airworthiness management rely on ALARP safety cases?

Military fleets sometimes operate outside their approved type design or lack full certification evidence. ALARP safety cases show that remaining airworthiness risk has been reduced as far as reasonably practicable and let the accountable duty holder accept it on documented evidence.

What do participants take back from the military airworthiness management course?

Participants take back a Military Airworthiness Management Plan for a case air arm, with a regulation model map, certification basis notes, a modification classification sheet, an organisation approval roadmap and an assurance audit schedule they can adapt to their own organisation.
