



# **MILITARY AIRWORTHINESS AUTHORITY**

## **UNITED ARAB EMIRATES MILITARY AIRWORTHINESS DOCUMENT**

### **UAEMAD–A&D**

#### **ACRONYMS AND DEFINITIONS DOCUMENT**

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### **STATUS**

The Status of the document can take two values:

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### **EDITION**

The Edition Number will have the following format: **Edition X.YY:**

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### **NOTE**

Amended paragraphs from UAEMAD–A&D Edition 1.0 are indicated by the use of a ‘sidebar’ in the margin. UAE MAA unique amendments are indicated using green coloured font.

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## INTRODUCTION

This document provides in Part 1 a non-exhaustive list of important acronyms that are unique to the United Arab Emirates Military Airworthiness Regulation (UAEMAR) document set. Part 2 provides definitions and explanations for those words, terms and phrases, used in documents produced by the MAA, which could otherwise be considered ambiguous, confusing or unclear. It also includes terms which have a specific MAA meaning which might not be obvious to the reader.

The definitions in the UAEMAD-A&D should be used consistently in UAEMARs and UAEMADs.

## GUIDELINES FOR INCLUSION IN UAEMAD-A&D

UAEMAD-A&D should be the single repository for all definitions and acronyms used within the UAEMARs (including their associated AMC/GM) and the UAEMADs.

If a term is only used in a single document then, at the discretion of the MAA, a definition or acronym could be included in the document itself rather than in the UAEMAD-A&D.

Technical definitions used within the European Military Airworthiness Certification Criteria (EMACC) Handbook and Guidebook should be kept in the EMACC Appendix (Glossary & Acronyms).

## PART 1 – LIST OF ACRONYMS

ACRONYM	EXPANSION
<b>ACAM</b>	Aircraft Continuing Airworthiness Monitoring
<b>AD</b>	Airworthiness Directive
<b>ALI</b>	Airworthiness Limitation Item
<b>AMC</b>	Acceptable Means of Compliance
<b>APU</b>	Auxiliary Power Unit
<b>ARC</b>	Airworthiness Review Certificate
<b>ATA</b>	Air Transportation Association
<b>CAME</b>	Continuing Airworthiness Management Exposition
<b>CAMO</b>	Continuing Airworthiness Management Organisation
<b>CDCCL</b>	Critical Design Configuration Control Limitations
<b>CDL</b>	Configuration Deviation List
<b>CEO</b>	Chief Executive Officer
<b>CI</b>	Configuration Item
<b>CMM</b>	Component Maintenance Manual
<b>CRS</b>	Certificate of Release to Service
<b>CS</b>	Certification Specification
<b>DOA</b>	Design Organisation Approval
<b>DOE</b>	Design Organisation Exposition
<b>EASA</b>	European Aviation Safety Agency
<b>EDP</b>	Electronic Data Processing
<b>EMACC</b>	European Military Airworthiness Certification Criteria
<b>EMAD</b>	European Military Airworthiness Document
<b>EMAR</b>	European Military Airworthiness Requirements
<b>EMAR 145</b>	Requirements for Maintenance Organisations

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<b>ACRONYM</b>	<b>EXPANSION</b>
<b>EMAR 66</b>	Requirements for Military Aircraft Maintenance Licensing (of Personnel).
<b>EMAR 147</b>	Requirements for Maintenance Training Organisations
<b>EMAR 21</b>	Requirements for the Certification of Military Aircraft and related products, parts and appliances, and Design and Production Organisations
<b>EMAR M</b>	Continuing Airworthiness Requirements
<b>EMPA</b>	European Military Part Approval
<b>EMTSO</b>	European Military Technical Standard Order
<b>ESF</b>	Equivalent level of Safety Finding
<b>FAA</b>	Federal Aviation Administration
<b>FAR</b>	Federal Aviation Regulation
<b>FRS</b>	Flammability Reduction Systems
<b>FTS</b>	Fuel Tank Safety or Flight Test Schedule
<b>GM</b>	Guidance Material
<b>HF</b>	Human Factors
<b>ICAO</b>	International Civil Aviation Organisation
<b>MAML</b>	Military Aircraft Maintenance Licence
<b>MARC</b>	Military Airworthiness Review Certificate
<b>MAWA</b>	Military Airworthiness Authorities
<b>MCRI</b>	Military Certification Review Item
<b>MEL</b>	Minimum Equipment List
<b>MFTP</b>	Military Flight Test Permit
<b>MO</b>	Maintenance Organisation
<b>MOB</b>	Main Operating Base
<b>MOE</b>	Maintenance Organisation Exposition
<b>MSTC</b>	Military Supplemental Type Certificate
<b>MTC</b>	Military Type Certificate

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<b>ACRONYM</b>	<b>EXPANSION</b>
<b>MTCH</b>	Military Type Certificate Holder
<b>MTO</b>	Maintenance Training Organisation
<b>MTOE</b>	Maintenance Training Organisation Exposition
<b>MTSO</b>	Military Technical Standard Order
<b>NDT</b>	Non-Destructive Test(ing)
<b>NMAA</b>	National Military Airworthiness Authority
<b>OEM</b>	Original Equipment Manufacturer
<b>POA</b>	Production Organisation Approval
<b>POE</b>	Production Organisation Exposition
<b>RPAS</b>	Remotely Piloted Air System
<b>SB</b>	Service Bulletin
<b>STANAG</b>	Standardization Agreement (in NATO)
<b>TC</b>	Type Certificate
<b>UAE MAA</b>	United Arab Emirates Military Airworthiness Authority
<b>UAEMAD-A&amp;D</b>	United Arab Emirates Military Airworthiness Document – Acronyms and Definitions
<b>UAEMAD-R</b>	United Arab Emirates Military Airworthiness Document – Recognition
<b>UAEMAR</b>	United Arab Emirates Military Airworthiness Regulation
<b>UAEMAR 21</b>	Requirements for the Certification of Military Aircraft and related products, parts and appliances, and design and production organisations
<b>UAEMAR 66</b>	Requirements for Military Aircraft Maintenance Licensing
<b>UAEMAR 145</b>	Requirements for Maintenance Organisations
<b>UAEMAR 147</b>	Requirements for Maintenance Training Organisations
<b>UAEMAR M</b>	Continuing Airworthiness Requirements
<b>UAS</b>	Unmanned Aircraft System
<b>UAV</b>	Unmanned Aerial Vehicle
<b>UCS</b>	UAV Control Station



## PART 2 – LIST OF DEFINITIONS AND EXPLANATIONS

TERM	DEFINITION / EXPLANATION
<b>Acceptable Means of Compliance</b>	This illustrates a means, but not the only means, by which UAEMARs can be met and a regulated entity may decide to show compliance by other means. Hence only an Authority can agree alternatives to the published Acceptable Means of Compliance. Acceptable Means of Compliance are strongly recommended practices and a justification will be required to the Authority if they are not followed. The burden of proof that a regulation is satisfied rests entirely with a regulated entity when alternatives are proposed to the Authority.
<b>Accountable Manager</b>	Person designated by the Approved Organisation and named in the Exposition, who is accountable to the UAE Military Airworthiness Authority for maintaining safety standards required by UAE Military Airworthiness Regulations and any additional standards specified in the respective Exposition. Also a key figure who has influence within the organisation and the ability to make appropriate resource decisions to ensure compliance with airworthiness regulations.
<b>Addition</b>	The inclusion of further basic categories or sub-categories to a Military Aircraft Maintenance Licence that is already held by an individual.
<b>Adopt</b>	To transcribe, with no deviation, the requirements (European Military Airworthiness Requirements) into UAE Military Airworthiness regulations using English.
<b>Advisory Material</b>	Advisory material provides interpretation of technical airworthiness requirements and standards to assist in understanding and implementation. It also provides guidance on methods and procedures that are in compliance with technical airworthiness requirements and standards. Advisory material, including the described methods and procedures, is not mandatory and organisations may choose to follow other means of demonstrating compliance.
<b>Aircraft</b>	Any machine that can derive support in the atmosphere from the reactions of the air others than the reactions of the air against the earth's surface.
<b>Aircraft Flight Manual</b>	An Aircraft Flight Manual is a manual, associated with the Military Type Certificate, containing limitations within which the aircraft is to be considered airworthy, and instructions and information necessary to the flight crew members for the safe operation of the aircraft.
<b>Aircraft Maintenance Programme</b>	A document which describes or incorporates by reference the specific scheduled maintenance tasks and their frequency of completion, the associated maintenance procedures and related standard maintenance

TERM	DEFINITION / EXPLANATION
	practices necessary to preserve the airworthiness of those aircraft to which it applies.
<b>Airworthiness</b>	The ability of an aircraft, or other airborne equipment or system, to operate in flight and on ground without significant hazard to aircrew, ground-crew, passengers (where relevant) or to other third parties.
<b>Airworthiness Codes</b>	Product airworthiness requirements, applicable to the design of a product, that are approved by a competent airworthiness authority for the use with standardised aircraft categories (e.g. EASA CS, FAA FAR, STANAG, Def-STAN, etc.).
<b>Airworthiness Directive</b>	A document issued or adopted by the Authority which mandates actions to be performed on an aircraft to restore an acceptable level of safety, when evidence shows that the safety level of this aircraft may otherwise be compromised.
<b>Airworthiness Limitation Item</b>	This is an item arising from a system safety analysis that has been shown to have failure mode(s) associated with an unsafe condition.
<b>Approved Organisation</b>	An Organisation which has been approved by an Authority and deemed to have met their applicable Regulations or Requirements.
<b>Artefact</b>	An airworthiness related document, either hard copy or electronic, that can be used as evidence in making an airworthiness judgement.
<b>Authority</b>	Unless otherwise defined in specific UAEMARs, Authority means a National Military Airworthiness Authority responsible for the airworthiness of military aircraft.
<b>Base Maintenance</b>	Maintenance tasks falling outside the criteria for Line Maintenance.
<b>Certification</b>	Recognition that a product, part or appliance, organisation or person complies with the applicable airworthiness requirements followed by the declaration of compliance.
<b>Certificate of Release to Service</b>	<p>This is a statement, signed by an appropriately authorised person, on behalf of an approved organisation, which asserts that maintenance has been properly carried out.</p> <p>The Certificate of Release to Service contains the basic details of the maintenance carried out, the date that it was completed and the identification details (may include an authorisation stamp) of the person issuing the certificate.</p>
<b>Certification Review Item</b>	A document recording Deviations, Special Conditions, new Means of Compliance or any other certification issue which requires clarification and interpretation, or represents a major technical or administrative issue.

TERM	DEFINITION / EXPLANATION
<b>Certifying Staff</b>	Personnel responsible for the release of an aircraft or a component after production and/or maintenance.
<b>Chief Executive Officer</b>	Person who is responsible for a civil company within which the Approved Organisation operates. The Chief Executive Officer may report to a board of directors and may appoint other managers, or he/she may be one of very few people in a small company. In relation to UAEMARs, the Chief Executive Officer is mentioned as he/she may be senior to the Accountable Manager.
<b>Compliance Demonstration</b>	Activities to demonstrate that the product, part or appliance complies with the requirements in the Certification Basis.
<b>Component</b>	Any engine, propeller, part or appliance.
<b>Component Maintenance Manual</b>	A formal document which details the way in which off-aircraft maintenance instructions on the specified component shall be accomplished.
<b>Configuration Control</b>	A systematic process that ensures that changes to released configuration documentation are properly identified, documented, evaluated for impact, approved by an appropriate level of authority, incorporated, and verified.
<b>Configuration Deviation List</b>	<p>A list, established by the (Military) Type Certificate Holder and approved by the UAE Military Airworthiness Authority, which identifies any external parts of an aircraft type which may be missing at the commencement of a flight, and which contains, where necessary, any information on associated operating limitations and performance correction.</p> <p>Examples of Configuration Deviation List items will vary from aircraft type, but typically may include external light covers, retractable landing lights etc.</p>
<b>Configuration Item</b>	Any component, module, subcomponent, equipment, technical manuals, software, ground support equipment, which can be submitted to the configuration control process.
<b>Configuration Management</b>	A management process for establishing and maintaining consistency of a product's performance, functional, and physical attributes with its requirements, design and operational information throughout its life.
<b>Continuing Airworthiness</b>	All of the processes ensuring that, at any time in its operating life, the aircraft complies with the airworthiness requirements in force and is in a condition for safe operation.
<b>Continued (design) airworthiness</b>	All tasks to be carried out to verify that the conditions under which a Type-Certificate or a Supplemental Type Certificate has been granted continue to be fulfilled at any time during its period of validity.

TERM	DEFINITION / EXPLANATION
<b>Crew / Aircrew</b>	Includes Pilot(s) and other personnel on- board the aircraft and/or the Unmanned Aerial Vehicle control station with responsibilities to ensure the safe conduct of the flight.
<b>Critical Design Configuration Control Limitations</b>	<p>Critical Design Configuration Control Limitations identify the critical design features such as proper wire separation, proper installation of a panel gasket, minimum bonding jumper resistance levels, etc., that must be maintained in exactly the same manner throughout the life of the aircraft in order to comply with the (Military) Type Certificate and maintain airworthiness.</p> <p>The purpose of the Critical Design Configuration Control Limitations is to provide instructions to ensure these critical features are present throughout the life of the airplane and are inspected and verified when changes, repairs, or maintenance actions occur in the area.</p>
<b>Declaration of Compliance</b>	A statement, signed by the Head of Design or by an authorised representative, to show compliance with all applicable type certification basis and, where applicable, environmental protection requirements. It declares that the aircraft is airworthy within the specific design limitations.
<b>Design Change</b>	A design change is a change in Type Design as defined in UAEMAR 21A.91
<b>Equivalent level of Safety Finding</b>	This is when literal compliance with a certification requirement cannot be shown and compensating factors in the design can be shown to provide a level of safety equivalent to that established by the airworthiness standards. An Equivalent level of Safety Finding may document a method of compliance that is different from what is stated in the requirements, but is judged as acceptable by the National Military Airworthiness Authority.
<b>Exposition</b>	The document or documents that contain the material specifying the scope of work deemed to constitute approval and showing how the organisation complies with a UAE Military Airworthiness Regulation.
<b>Extension</b>	Inclusion of additional topics to Categories A, B1 and B2 Military Aircraft Maintenance Licences as detailed in UAEMAR 66 Appendix I (which includes Modules 50-55) that are not part of the applicable modules for that category of Military Aircraft Maintenance Licence.
<b>Fit for Flight</b>	Condition of a type design being certified as compliant with applicable airworthiness requirements as well as of an aircraft having been serviced and inspected as meeting the certified design and prepared for the intended flight.
<b>Fully Comply</b>	To demonstrate that UAE Airworthiness regulations are at least equivalent to the requirements (European Military Airworthiness Requirements). For national reasons regulations may be more stringent than requirements.

TERM	DEFINITION / EXPLANATION
<b>Guidance Material</b>	This is typically developed to provide additional explanation to assist the application of the requirement and/or explain the Acceptable Means of Compliance.
<b>Human Factors</b>	Principles which apply to design, certification, production, training, operations and maintenance and which seek safe interface between the human and other system components by proper consideration of human performance.
<b>Human Performance</b>	Human capabilities and limitations which have an impact on the safety and efficiency of operations.
<b>Implement</b>	To introduce requirements (European Military Airworthiness Requirements) into regulations by either adoption or compliance.
<b>Instructions for Continuing Airworthiness</b>	Instructions for Continuing Airworthiness detail the methods, inspections, processes, and procedures necessary to keep aircraft and/or products airworthy.
<b>Life Limited Parts</b>	Parts that, as a condition of their type certificate, may not exceed a specified operating time, calendar time, number of operating cycles, or any other approved service life consumption units.
<b>Limitation</b>	Limitations stipulated on an aircraft maintenance licence are exclusions from specified certification privileges and apply to the aircraft in its entirety.
<b>Limited Certification Authorisation</b>	This is issued by the Approved Maintenance Organisation, in accordance with a procedure approved by the UAE Military Airworthiness Authority, for flight crew, flight engineer or crew chief to carry out specific tasks (usually away from their home base or station). The authorisation permits the holder to issue certificates of release to service following specific tasks within the limits of the tasks specifically endorsed on the authorisation.
<b>Line Maintenance</b>	Carried out before flight to ensure that the aircraft is fit for the intended flight.
<b>Maintenance</b>	Any one or combination of overhaul, repair, inspection, replacement, modification or defect/fault rectification of an aircraft or component, with the exception of pre-flight inspection.
<b>Maintenance Manual</b>	That part of the Military Air System document set which identifies the particular maintenance procedures and periodicity necessary to maintain the airworthiness of the Military Air System.
<b>Master Minimum Equipment List</b>	The Master Minimum Equipment List is a list established for a particular aircraft type by the organisation responsible for the Type Design with the approval of the UAE Military Airworthiness Authority which identifies items which individually may be unserviceable at the commencement of a flight. The Master Minimum Equipment List may be associated with special operating conditions, limitations or procedures.

TERM	DEFINITION / EXPLANATION
<b>Means Of Compliance</b>	The techniques that will be used to demonstrate the compliance of the type design against each certification requirement identified in the Certification Basis. Examples include test, analysis and inspection.
<b>Military Aircraft</b>	An Aircraft (including Unmanned Aircraft System) designed and/or operated for military use and/ or registered or intended to be registered on the military register of the UAE Military Airworthiness Authority.
<b>Military Aircraft Maintenance Licence</b>	A categorised licence which, dependent upon completion of all relevant approved training & examinations, and the requisite levels of practical experience, permits an authorised individual to issue certificates of release to service or act as support staff for scheduled and/or unscheduled maintenance performed on an aircraft or aircraft systems as defined by UAEMAR 66.
<b>Military Airworthiness Review Certificate</b>	To ensure the validity of the Military Certificate of Airworthiness, an airworthiness review of the aircraft and its continuing airworthiness records shall be carried out periodically. A Military Airworthiness Review Certificate is issued on completion of a satisfactory airworthiness review. The Military Airworthiness Review Certificate is valid for one year.
<b>Military Certification Review Item</b>	A Military Certification Review Item (MCRI) is a document recording adaptations to the Type Certification Basis (TCB), new Means of Compliance, Equivalent Level of safety findings, or any other certification issue which requires clarification and interpretation, or represents a major technical or administrative issue.
<b>Military Supplemental Type Certificate</b>	A document issued or endorsed by the Authority which certifies a major change to the type design by an organisation other than original design organisation.
<b>Military Type Certificate</b>	Certificate issued by the MAA (or national equivalent) stating that a product complies with the applicable airworthiness requirements.
<b>Military Type Certificate Holder</b>	The organisation responsible for the relevant Type Design and applying for, and then holding, the Military Type Certificate and accepting the rights and obligations for the product.
<b>Minimum Equipment List</b>	A list which provides for the operation of aircraft, subject to specified conditions, with particular equipment inoperative which is prepared by an operating organisation in conformity with, or more restrictive than, the Master Minimum Equipment List established for the aircraft type. It is to be approved by the UAE Military Airworthiness Authority.
<b>Minor Amendment</b>	Those changes to the Organisation’s Exposition(s) which do not affect the UAE Military Airworthiness Regulation related approvals.
<b>Minor Maintenance</b>	Includes repetitive tasks and simple defect/fault rectification.

TERM	DEFINITION / EXPLANATION
<b>Modification</b>	A modification is a change of design to the authorized configuration of the approved type design of a product, part or appliance. Typical examples are component changes, equipment additions, or software changes and often involve a revision to the drawings and support documentation.
<b>Non-installed equipment</b>	Means any instrument, equipment, mechanism, apparatus, appurtenance, software or accessory carried on board of an aircraft by the aircraft operator, which is not a part, and which is used or intended to be used in operating or controlling an aircraft, supports the occupants' survivability, or which could impact the safe operation of the aircraft.
<b>Occurrence Reporting</b>	The reporting to the relevant Authorities, to the Military Type Certificate Holder, or Military Restricted Type Certificate Holder, and/or the Military Supplemental Type Certificate Holder as appropriate, of any failure, malfunction, defect or other occurrence which has resulted in or may result in an unsafe condition. An Occurrence Report can also be made by the Military Type Certificate Holder to the Authority.
<b>Partially Adopt</b>	To transcribe, with no deviation, part of the requirements (EMARs) into national regulations using English.
<b>Partially Comply</b>	To demonstrate that national regulations are, in part, equivalent to the requirements (EMARs).
<b>Parts and Appliances</b>	Parts and appliances are lower level components for which a UAE Military Technical Standard Order/Technical Standard Order may exist.
<b>Product</b>	An aircraft, an engine or a propeller.
<b>Registration</b>	Registration is the formal recording by the UAE Military Airworthiness Authority (or national equivalent) of individual aircraft on the military aircraft register and the assignment of a tail number.
<b>Repair</b>	A 'repair' means the elimination of damage and/or restoration to an airworthy condition following initial release into service by the manufacturer of any product, part or appliance.
<b>Shall</b>	Used to express a mandatory requirement.
<b>Should</b>	Used to express a preferred, but not mandatory, method of accomplishment. An alternative method of accomplishment shall be agreed by the relevant Authority.

TERM	DEFINITION / EXPLANATION
<b>Special Conditions</b>	Special conditions are included in the Certification Basis of the aircraft when the design features of a particular product or the experience in operation render any of the airworthiness code provisions inadequate or inappropriate to ensure conformity with essential requirements.
<b>Standard Parts</b>	<p>A Standard part is a part designated as such by the design approval holder responsible for the product, part or appliance, in which it is intended to be used and manufactured in complete compliance with an established specification which includes design, manufacturing, test and acceptance criteria, and uniform identification requirements.</p> <p>Examples of standard parts are aircraft general spares as defined by the design approval holder, such as nuts, bolts, washers, split pins, etc. All design, manufacturing, inspection data and marking requirements necessary to demonstrate conformity of the part will be in the public domain and published or established as part of recognised specifications.</p>
<b>State School</b>	Any education or training facility that is under the control of a government ministry.
<b>Support Staff</b>	Those staff holding an UAEMAR 66 Military Aircraft Maintenance Licence in Category B1 and/or B2 with the appropriate extensions and Military Aircraft Type Ratings, working in a base maintenance environment while not necessarily holding certification privileges.
<b>Type Certification Basis</b>	An agreed set of airworthiness requirements (including code, special condition, etc) that a product must be compliant with in order to obtain a Military Type Certificate.
<b>Type Design</b>	The set of approved design information necessary to define the product type, as detailed in UAMAR 21.A.31.
<b>Unmanned Aerial Vehicle / Unmanned Aircraft System</b>	A reusable aircraft which is designed to operate by being remotely piloted (no human pilot or passengers on board) or automatically flying a pre-programmed flight profile.