

Design Organization Approval Scheme (DOAS)

FAQs



CENTRE FOR MILITARY AIRWORTHINESS AND CERTIFICATION (CEMILAC)
DEFENCE R&D ORGANIZATION, MOD
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Design Organization Approval Scheme (DOAS)

1. What is DOAS

- DOAS is a means to recognize the Design Organization (DO) that has a well-defined Design Assurance System (DAS) for enabling the DOs to be an applicant/ holder of Military Type Certificate (MTC) for Air Systems and Type Approvals (TA) for Airborne Stores.
- DOAS is not pre-requisite for bidding process or developments contracts.
- DOAS approval is 'Process Driven' at par with International Practices.

2. Intent of DOAS

- Capability of any firm to 'Meet Airworthiness Certification Requirements'.
- DOAS is a means for 'Effective Engagement between Design organization & CEMILAC'.
- Emphasis is on 'Design Assurance Process'.
- Required for firms Developing 'Critical & Complex Products' leading to Type Certification (Aircraft) and Type Approval (LRUs).

3. Scope of DOAS

- Leverages on Industry driven accreditation process like AS9100, CMM and NADCAP approvals.
- Third party accreditations are uniform, faster.
- Enables firms to work for military aviation.
- Emphasis is for Main Contractorsthat develop 'Complex' products like
- Air systems (Aircrafts, Helicopters, Engines, Missiles).
- Airborne Equipment (Flight & Mission Critical Systems and LRUs).
- Not applicable for organization that develop 'Modules, Components and Materials) that are part of Air System & Airborne Equipment.
- Gives the flexibility to main contractor to select and integrate sub modules.

4. Prerequisites for DOAS

- Should be AS9100 Approved
- Ensures that Basic Development Processes are in place.
- The firm should have robust 'Design Assurance Process'

- Establishment of an Airworthiness Group & Independent Monitoring Group.
- Exclusive 'Compliance Verification Engineers' – Competent & specialized engineers for Independent Verification & Validation.
- Rigorous Analysis and Review Processes.
- Requisite Tools for analysis and Testing.
- Stringent Configuration Management.
- A detailed document called 'Design Organization Exposition Manual' that covers-
- Design Assurance Process.
- Organization Structure to that ensures Design Assurance Process.

5. Benefits of DOAS

For D&D Organizations

- Privileges
- CEMILAC can delegate some of its activities to 'Airworthiness Group'.
Note: Currently delegations are accorded only for only non-critical products and minor changes to mission critical products.
- Reduced stage gated certification visits to CEMILAC leading to faster product development.
- International Recognition
- Once mutual recognitions are established with foreign airworthiness authorities, firms with DOA would have international status.

For User Services

- Ensures that D&D Organization perennially follows the demonstrated process throughout product life-cycle.
- Reduced latent defects with high reliability products through strict adherence to process.

6. Eligibility Criteria

- DOs registered in India.
- DOs meeting one of the following criteria

For Air System Design Organization (ASDO)

- One Type Certificate (TC) / Amended Military Type Certificate (AMTC) / Supplementary Military Type Certificate (SMTC) from CEMILAC.
- Active Involvement with CEMILAC towards Certification for 06 Years.
- A product which is currently under certification with CEMILAC.
- From the time of submission of Airworthiness Certification Plan (ACP).

For Store Design Organization (SDO)

- One TA form CEMILAC .
- Active Involvement with CEMILAC towards certification for 02 Years.
- A product which is currently under certification with CEMILAC from the time of submission of ACP.
- Holding Approval of Firms and its Quality Management System (AFQMS) and/or AS9100 Approval.

7. How to Apply

Interested DOs may send a request mail to

Director (Materials & Public Interface) at dte-mat.pi@gov.in.

Post receipt of request, CEMILAC will send detailed guidelines for submission of application.

8. Point of Contact

Submission of Application 80A & DOE

Chief Executive (Airworthiness),
Centre for Military Airworthiness & Certification (CEMILAC), DRDO,
Government of India, Ministry of Defence Marathahalli Colony Post,
Bengaluru –560 037

Kind Attention:

Director (Materials & Public Interface)

E-Mail: dte-mat.pi@gov.in

Phone No.: 080-25121406/ 080-25121401

Post issue of Token Number

1. Shri Sanjeev Kumar Jha, Sc 'G'

Email- sk.jha.cemilac@gov.in

Phone No.: 080-25121406/1401

2. Colonel Bhavik Kaul, VSM (Retired)

E-Mail: dte-mat.pi@gov.in

Phone No.: 080-25121408/1401

Important Points for DOAS Applicants

- Token Number will be issued on receipt of DOE from DO.
- Only Three (03) tokens will be issued per quarter.
- Issue of token will be on first come first basis.
- If more than three DOE's are received in one quarter, then Application will rollover to next quarter and accordingly Token Number will be issued.