

EXTRACTED FROM DESIGN ORGANISATION MANUAL APPROVED BY CAAM

Design Engineer (DE)

- a. DE are responsible to prepare the necessary documents with the similar duties and responsibilities as those of a SCE, except that they are not authorised to show compliance to airworthiness, OSD and environmental protection requirements.
- b. The DE are directly responsible to the HODO in the range of duties they are assigned to.
- c. Qualification criteria for DE:
 - i. At least holder of Degree in Aerospace/ Aeronautical/ Mechanical/ Avionics/ Electrical and Electronic Engineering; and
 - ii. Demonstrate an adequate understanding of related design standards.

Show Compliance Engineer (SCE)

- a. SCE are responsible to prepare the necessary documents and show compliance based on the Certification Plan (CP) or specifications.
- b. SCE are also responsible to establish the compliance checklist and updating for changes.
- c. The SCE shall possess all necessary competencies within the applicable technical fields, to perform the tasks within the terms of approval as shown in para 2.2.
- d. The SCE are directly responsible to the HODO for the duties they are assigned to.
- e. The duties and responsibilities of SCE are listed below:
 - i. Retrieve compliance document templates from AWO.
 - ii. To develop investigation information and requirement for the modification in reference to acceptable data (e.g.: FAA Handbook, Advisory Circular, OEM data, SAE ARP and RTCA-DO)

- iii. To perform the type design investigation (e.g.: analysis, calculation, measurement, compliance inspection, testing, conformity, and evaluation of design change) i.a.w. Type Design Documentation procedure (GAM/DOA.P05)
 - iv. Preparation of Compliance Documents (e.g. drawings, test reports, justification reports, instruction and information for continued airworthiness, compliance checklist)
 - v. Submission of compliance documents including CC to CVE for independent checking and compliance verification.
- f. Qualification criteria for SCE:
- i. At least holder of Degree in Aerospace/ Aeronautical/ Mechanical/ Avionics/ Electrical and Electronic Engineering; and
 - ii. At least one year of design and engineering experience in the required technical field(s), and demonstrate a good understanding in related design standards; and
 - iii. Demonstrate to have good knowledge and understanding in related regulatory requirements (MCAIR 2016 and CAAM CADs), Airworthiness, CAD 8401, OSD and Environmental Protection Requirements (EASA CS and FAA FAR) as well as interpretations and means to provide compliance with these requirements.