



CONTINUING EDUCATION AND  
TRAINING SERIES

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# Design and Airworthiness Approval Regulations

*This 4-day course provides participants with an understanding of the regulatory system within Australia and its application to aircraft design, manufacture, modification, safety, repair and continuing airworthiness. This course is intended for Professional Engineers to provide competency training in approval of technical data and finding compliance to the CASR part 21 rules and regulations. It is suitable to individuals seeking CASA authorisation under CASR Subpart 21.M or those individuals seeking technical authority in a CASR Subpart 21J organisation. The course includes discussions on case studies and practical examples.*

**The course has been developed in consultation with the Civil Aviation Safety Authority (CASA).**

Monday 21st — Thursday 24th March 2022  
9:00am—5:00pm

Venue:  
MEMKO - L12, 303 Collins Street, Melbourne  
VIC 3000, Australia



Course managed by MEMKO Aviation, Aerospace and Defence,  
ABN 73 619 452 470

# COURSE REGISTRATION

## Design and Airworthiness Approval Regulations

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Name: \_\_\_\_\_

Company: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

Telephone: \_\_\_\_\_

E-mail: \_\_\_\_\_

**Registrations close Friday 11th March 2022**

Email this form with your payment details to:

MEMKO A.A.D.  
Email: [training@memko.com.au](mailto:training@memko.com.au)

### Payment Method:

- Bank transfer (\$3,575) to MEMKO AAD P/L BSB 033-060 Ac 437512  
 Charge my credit card:

Visa     MasterCard     Amex    Amount: \$ 3,575

Number: \_\_\_\_\_ CVC: \_\_\_\_\_

Card expiry: \_\_ / \_\_    Cardholder Name: \_\_\_\_\_

**Cardholder's Signature:** \_\_\_\_\_

For further info, please contact MEMKO on 03-8605 7777 or [training@memko.com.au](mailto:training@memko.com.au)  
Tax invoices/receipts will be emailed to above email address.

## COURSE OUTLINE

The course will cover the following topics:

- The Power of Government
- Regulations - A Historical Perspective
- The Australian Civil Aviation Regulatory Framework
- Bi-Lateral Agreements and ICAO
- The Civil Aviation Safety Authority (CASA)
- Safety Regulation and Enforcement Strategy
- Airworthiness Control System
- Type Certification and Design Standards
- Manufacture (Production Certification)
- Aircraft Certification (Certification of Airworthiness)
- In-Service Design Changes - CASA delegated privileges and Approved Design
- Organisations (CASR Subpart 21J)
  - Supplemental Type Certificate (STC)
  - Australian Parts Manufacturer Approval (APMA)
  - Australian Technical Standard Order (ATSO) Authorisation
  - Modification/Repair Design Approval (CASR 21 Subpart M)
- Continuing Airworthiness and Maintenance
- Delegation and Design Approval Authorisation from CASA, including Approved Design Organisation (CASR Subpart 21.J)
- CASA Audit Program
- Documentation
- Problem Solving Exercises and Case Studies
- Harmonisation with EASA Part 21 and the Australian Defence Force DASR Part 21

## COURSE LECTURER



**David Rees**  
Principal Design Engineer  
Jet Aviation Special Missions

David is an aerospace professional engineer with over 30 years industry experience in aircraft design, certification and sustainment of civil and military platforms across multiple technical domains including aircraft structures, mechanical systems and cabin systems.

He started his career as a Research Engineer with DSTO and CRS-AS before joining Aerostructures Australia providing design services and aircraft structural integrity support across multiple RAAF platforms including C-130 and F-111.

David subsequently held senior design roles on major projects with Airbus UK on the A380 and with GKN on the Lockheed Martin F-35. David then spent 12 years as a Senior Certification Engineer with CASA where his responsibilities included entry control and oversight of CASR 21M Authorised Persons and 21J Approved Design Organisations.

David is currently responsible for design assurance and certification functions within the Jet Aviation DASR 21J Military Design Organisation, holding the position of Chief of the Office of Airworthiness for the ADF B300 King Air 350 fleet. David is a member of RAeS and a Fellow and CPEng (Aerospace) of the Institution of Engineers Australia. He holds a Bachelor of Aeronautical Engineering from the University of Sydney, Australia.

## COURSE GUEST LECTURERS

**Mr Doug McPherson**

Engineering Manager, **MEMKO Aviation, Aerospace and Defence PTY LTD**

Doug is a highly experienced aeronautical engineer with a career spanning more than 30 years in the aviation and aerospace industry.

He has a significant back-ground in design, certification and production and also has expertise in the sup-port and sustainment of aircraft.

Past leadership roles include Engineering Managerial appointments at Hawker de Havilland & Boeing Aerostructures Australia. His design and manufacturing experience covers products from most major OEMs including Boeing, Airbus, Lockheed Martin and Bombardier.

Doug has held many Technical delegations including Design, Stress and MRB approvals and is currently the Engineering Manager for MEMKO Pty Ltd where he holds an instrument of appointment as CASA Subpart 21.M for the approval of aircraft modifications and repairs.

**Mr John Wilton**

Paradigm Legal

John Wilton is an experienced lawyer and contracts manager with more than 18 years of experience in dispute resolution, insurance and claims management, government procurement, complex commercial negotiations, contract drafting and advising on complex contracts in the Defence, Aerospace, Technology commercialisation, Commercial Services and Professional Services sectors, both domestically and internationally.

## COURSE ACCREDITATION

All participants will receive a certificate of completion after full attendance of the course. Academic credit will be given to participants who successfully complete the components of assessment.

## COURSE PREREQUISITES

The course is intended for persons who hold, or are seeking to hold, authorisation or design approval. It provides an understanding of the regulations and processes that organizations and individuals are required to address, for the modification and repair of aircraft and design and production of products and parts. Experience in aviation and the regulatory system would be an advantage.

## COURSE FEES

Fee for this 4 day course is \$3,250 plus GST. This includes course notes, morning and afternoon tea/coffee and lunches.

Course fees will be returned less a \$50 administration fee, upon receipt of a written cancellation notice before Friday 11th March 2022.

MEMKO reserves the right to cancel the course, in which case participants will be notified and the course fee will be returned in full, this includes COVID-19 related circumstances. Because of this, please hold off booking flights and accommodation until the course is confirmed.

**Places are limited.**