



CONTINUING EDUCATION AND
TRAINING SERIES

Aircraft Electrical Load Analysis (ELA)

This 2-day course provides essential ELA knowledge and skills to ensure participants understand the mathematics, regulations and process behind ELA management. This unique course is intended for aircraft technical support staff and individuals involved with aircraft modifications, repairs and airworthiness compliance. The course aims to explain ELA terminology, aircraft electrical basics, and ELA associated regulations. ELA spreadsheets are analysed and updated. Incident case studies and practical examples are studied.

Tuesday 10th October — Wednesday 11th October 2017
9:00am—5:00pm

Venue:
MEMKO - L4, 455 Bourke Street, Melbourne,
VIC 3000, Australia



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

COURSE REGISTRATION

Aircraft Electrical Load Analysis (ELA)

Name: _____

Company: _____

Address: _____

Telephone: _____ Fax: _____

E-mail: _____

Registrations close Friday 29th September 2017

Email or fax this form with your payment details to:

MEMKO Aviation, Aerospace and Defence Pty Ltd
Fax: 03 8080 1645
Email: training@memko.com.au

Payment Method:

- I enclose cheque (\$1,650) payable to MEMKO AAD Pty Ltd
 Bank transfer (\$1,650) to MEMKO P/L BSB 033-060 Ac 437512
 Charge my credit card:

Visa MasterCard Amex Amount: \$ 1,650

Number: _____ CVC: _____

Card expiry: __ / __ Cardholder Name: _____

Cardholder's Signature: _____

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

COURSE OUTLINE

- The learning activities are face-to-face lectures with embedded quizzes and class discussion.
- An ELA will be analysed and updated in an interactive practical session.
- Assessment consists of a short quiz following each learning module.
- The course is arranged as a series of 4 modules over 2 days as follows:
 - 1) ELA introduction and electrical basics, ELA purpose and construction. Airworthiness regulations.
 - 2) Aircraft systems and aircraft electrical buss design.
 - 3) ELA practical exercises. ELA control and update process.
 - 4) Critical electrical issues, power isolation, AD's and case studies.

COURSE OUTCOMES

- An understanding of the aircraft electrical supply and demand systems.
- An understanding of the requirements of the aircraft electrical design standards and regulatory compliance.
- An understanding of how to develop an aircraft ELA report.
- Ability to utilise an existing ELA in support of approving modifications involving aircraft avionics and electrics.
- Ability to maintain the ELA and incorporate ongoing modifications through the life of the aircraft.



COURSE LECTURER

Mr Michael Carlin
Aerospace Engineer

Michael Carlin holds a BE (Aerospace Engineering) from RMIT University. His career at Qantas/TAA spans more than 30 years commencing employment as apprentice Aircraft Instrument maker/repairer at TAA, then as a Flight Simulator Technician in the QANTAS/TAA Flight Training Centre followed by various QANTAS B747 and B767 aircraft reconfiguration projects as a project engineer with responsibilities across design, certification, integration, electrical load analysis, maintenance, and continuing airworthiness.

Following the completion of the projects, Michael joined QANTAS Avionics Engineering department as a support engineer for Electrical Power, Communications, Navigation and Surveillance Systems for the Boeing and Airbus fleets.

In 2008, he was selected to relocate to Airbus Production (Toulouse FAL) as the QANTAS Technical Liaison Engineer for the initial A380 deliveries. The role included the control, and integration of the QANTAS A380 customised software and the A380 Electronic Flight Bag (EFB).

Previous regulatory delegations held at Qantas include CASA Authorised Person for CAR35/36/36A as well as CAR42ZS and CASR21.437 approvals.

Since his departure from QANTAS in 2012, Michael completed a training and assessment certificate and has taught several vocational engineering courses at RMIT.

COURSE ACCREDITATION

All participants will receive a certificate of completion after full attendance of the course.

COURSE FEES

Fee for this 2 day course is \$1,500 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 29th September 2017.

MEMKO Aviation, Aerospace and Defence Pty Ltd reserves the right to cancel the course, in which case participants will be notified and the course fee will be returned in full.

Places are limited.