



2019 IECQ ECMP & CAP Training Workshop – (IECQ ADHP & CAP Schemes)

**IECQ Aerospace, Defense, and High Performance (ADHP)
Component Management Scheme (IECQ ADHP Scheme)**

- Attendance 4 Days, 20th to 23rd May

IECQ Counterfeit Avoidance Programme (IECQ AP-CAP)

- Attendance 2 Days, 22nd and 23rd May

Workshops run 20th to 23rd May 2019 – Melbourne, Florida, USA

Participants Limited to 15

IEC Quality Assessment System for Electronic Components (IECQ)





IECQ ADHP & CAP Schemes Training Workshops

2019 IECQ Regional Training Workshops IECQ 4-Day ECMP & CAP Training Workshop date and location:

Region/Location: Melbourne, Florida, USA

Dates: Day 20th to 23rd May 2019

Time: 9.00 AM until 5:00PM
(Registrations from 8:30 AM for a 9:00AM [Day1] 8:45 [Days 2-4] commencement)

Hosted By: Rockwell Collins in Melbourne

Venue Address: 1100 W Hibiscus Blvd., Melbourne, FL 32901, USA

Host Contact: Jason Olmstead Muhs | jason.olmstead.muhs@collins.com

(Please do not contact our Host other than for logistical or site access reasons)

IECQ Contacts: Donna Croft | info@iecq.org
Steve ALLAN | steve.allan@iec-conformity.org | +61 405502386

IECQ Master Tutor: Jo Vann

Work Shop Language: English

!! Important Please Take Note !!

**Registrations must be sent to Donna Croft (info@iecq.org)
using the attached form and paid in full no later than **6th May 2019**.**

Maximum workshop size limited to 15

Facilities:

Tea, Coffee and snacks will be provided at morning and afternoon breaks.

Lunch will be provided each day at the lunch break.



IECQ ADHP & CAP Schemes Training Workshops

Who is this workshop aimed at:

This combined IECQ ADHP & CAP training workshop has been developed for education of resources undertaking activities within the IECQ System for the following programs in support of the Aerospace, Defense, and High-Performance industries:

- IECQ Aerospace, Defense, and High Performance (ADHP) Component Management Scheme (IECQ ADHP Scheme), and earns attendees 3.2 Continuing Education Unites (CEUs)
- IECQ Counterfeit Avoidance Programme (IECQ AP-CAP) – Programme requirements, 1.6 CEUs

Participants of this workshop should already have a high level of understanding of electrotechnical component product and their use within the Aerospace, Defense, and High-Performance or General industries.

The IECQ ADHP workshop is aimed at resources such as but not limited to, Sales, Contract administration, Internal Auditors (currently holding AS9100 or relevant internal auditor competence), External Auditors (currently holding AS9100 or relevant internal auditor competence), Industry Experts seeking IECQ TE status and IECQ CB Technical reviewers / decision makers.

The IECQ AP-CAP workshop covers anti-counterfeit audit schemes for both electronics and mechanical industries (with more emphasis on the electronic industries) and is aimed at similar resources but their prior knowledge may be only ISO9001 competence.

Those participants that successfully undertake and pass the Exam will be awarded an IECQ Training Certificate registered on the IECQ Online Training Certificate System, relevant to their competence. Applicants for IECQ Training Certificates for IECQ Assessors / Lead Assessors will need to fulfil the requirements of IECQ OD 010 for IECQ Assessors / Lead Assessors in accordance with the rules.

IECQ 4-Day ADHP & CAP Training Contribution Fee:

A small contribution fee of CHF500 applies for each participant to the workshop. This fee covers participant's attendance at the workshop, an IECQ Certificate of attendance or IECQ Training Certificate, morning and afternoon tea and lunch daily.

Those participant's that successfully undertake and pass the Exams will be awarded an IECQ Training Certificate registered on the IECQ Online Training Certificate System.

What do I need to prepare and provide:

Prepare (Pre-class assignment):

The Master Tutors of these workshops, have asked that all participants:

- Solid understanding of electrotechnical component product, industry terms used and their use within the Aerospace, Defense, and High-Performance or relevant General industries
- Have read and attained basic knowledge of IEC 62239-1:2018 and as relevant SAE EIA STD-4899C.
- Have read and attained basic knowledge of IECQ 03-4 IECQ ADHP Scheme Rules of Procedure
 - (1) Conformity Certification approach IECQ OD 3405,
 - (2) Implementation Certification approach IECQ OD 3406,
 - (3) Subcontractor Assembly Certification IECQ OD 3407-1,
- Have read and attained basic knowledge of IECQ 03-7 IECQ AP-CAP Scheme Rules of Procedure



IECQ ADHP & CAP Schemes Training Workshops

- Have basic knowledge of associated referenced standards like IEC TR 62240-2, SAE ARP6338, IEC TR 62240-1, IEC 62402, GEIA STD-0016, IEC TS 62668-1, IEC TS 62668-2, SAE AS5553, IEC TS 62239-2, SAE EIA-933, IEC 62647 series, GEIA-STD-0005 etc.,

Provide (Bring with you):

- A. You own electronic or hard copy of IEC 62239-1 and as relevant SAE EIA STD-4899. IECQ is not able to provide any industry referenced standards, only publications published by IECQ System.

Be prepared to actively participate:

- A. During the workshop days – be alert and participate;
- B. No Wi-Fi will be provided, phone calls and Email should only be undertaken during the breaks;
- C. Be involved and contribute to discussions and exercises;
- D. While we encourage feedback on the training material, we request this feedback is provided on the provided forms and if necessary, discussed politely as a group with the class and with the Master Trainer after the final exams.

Participants are further asked to prepare some thoughts about the publications for sharing in class as the workshop proceeds. You may be randomly asked to share your thoughts on a requirement(s).

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We do kindly ask all participants to be prepared to switch off your phones during class sessions over the four days – breaks excluded.





IECQ ADHP & CAP Schemes Training Workshops

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IECQ 4-Day ECMP & CAP Training Registration:

Please forward registrations to Donna Croft info@iecq.org **and cc** donna.croft@iecq.org

Workshop Location: USA

Dates: 20th to 23rd May 2019

Individual Participant Details

Family Name:	Given Name(s)
E-Mail:	

Participant(s) from IECQ CB's

IECQ CB Name:		
IECQ CB Address:		
IECQ CB Contact Person:		IECQ CB Contact E-Mail:
Participant(s)		
Family Name	Given Name(s)	E-Mail:

I / we will be attending the following workshops:

- 4 Days**, 20th to 23rd May – IECQ Aerospace, Defense, and High Performance (ADHP) Component Management Scheme (IECQ ADHP Scheme)
- 2 Days**, 22nd and 23rd May – IECQ Counterfeit Avoidance Programme (IECQ AP-CAP)

Please select a payment method:

- IECQ CB Members** Please invoice in CHF including a wire transfer fee to IECQ CB as detailed above
- Individuals or IECQ CB's** Please find below my Credit Card Payment Details

Type of Card (e.g. MasterCard, Visa etc.) Please note Union Pay cards are not acceptable:			
Full Name on Card:			
Card Number:			
Expiry Date:	/	3 Digit Security code on back of Card:	



IECQ ADHP & CAP Schemes Training Workshops

IECQ Avionics Scheme Training Workshops will be run over 4-days:

Time (Day 1)	Topic
8:30 to 9:00	Checking in of the training course
9:00 to 9:30	IECQ introduction, IECQ 03-4 ADHP Scheme and the IECQ 03-7 Counterfeit Avoidance (IECQ CAP) Scheme assessment programs
9:30 to 10:30	Overview of referenced standards, their current and future revision status and clauses dependant on AS9100 procedures
10:30 to 10:45	Tea/coffee break
10:45 to 12:00	Overview of ECMP, differences between IEC 62239-1 and SAE EIA STD-4899 and IECQ reference manuals
12.00 to 13.00	Lunch break
13:00 to 14:00	IEC 62239-1 clause 4.2, 4.3, 4.4, 4.6.7: Product and component qualification: (1) Use of preferred parts or product generic families (2) How to qualify a component for a specific Avionics application using reliability simulation and for example IEC TS 62686-1 and -2, AEC-Q100, Q101, Q200, field data or specific testing at component level with examples (3) Avionics product qualification (4) IEC TR 62240-2 and SAE ARP6338 Semiconductor wear-out
14:00 to 15:00	IEC 62239-1 clause 4.3.7: Atmospheric radiation IEC 62396 series SEE effects and impact on components and the ECMP process
15:00 to 15:15	Tea/coffee break
15.15 to 16.00	COTS assemblies management to IEC TS 62239-2 and SAE EIA-933 including examples for the Implementation audit only
16:00 to 17:00	Technical issues discussed so far. Topics for tomorrow. Questions/answers/wrap-up
Time (Day 2)	Topic
8:30 to 9:00	Checking in of the training course
9:00 to 10:00	IEC 62239-1 clause 4.3.8 and 4.7 compatibility with manufacturing process including Lead-free Management to IEC 62647 series or GEIA-STD-0005 series and examples,
10:00 to 10:15	Tea/coffee break
10.15 to 11:00	IEC 62239-1 clause 4.5 Continuous quality management, and IEC 62239-1 clause 4.8 data management/configuration control
11:00 to 12:00	IEC 62239-1 clause 4.3.3.3: IEC TR 62240-1 Uprating knowledge, including product thermal analysis and examples.
12:00 to 13:00	Lunch
13:00 to 14:30	IEC 62239-1 clause 4.4.8 Control of suppliers, including the optional use of IECQ ADHP Subcontractor Assembly Certification (IECQ OD3407-1) for CEMs
14.30 to 14.45	Tea/coffee break
14.45 to 17.00	IECQ 03-4 IECQ ADHP scheme explained: (1) ECMP quotation process and pre-audit issues (2) Conformity Certification approach IECQ OD 3405, (3) Implementation Certification approach IECQ OD 3406, (4) Subcontractor Assembly Certification IECQ OD 3407-1, (5) Managing quotations – ensuring we understand the client's requirements, (6) IECQ checklists, and



IECQ ADHP & CAP Schemes Training Workshops

	(7) How the conformity and implementation audit can be combined into one large audit with examples. (8) Audit findings and observations (9) Audit report, IECQ records and issuing certificates
Time (Day 3)	Topic
9:00 to 9:30	What is the counterfeit and fraudulent recycled components problem in industry?
9:30 to 10:45	Introduction to external anti-counterfeit standards and how they are used by industry .
10:45 to 11:00	Tea/coffee break
11:00 to 12:00	How the IECQ AP- CAP Scheme works and how it can be used.
12:00 to 13:00	Lunch
13:00 to 13.45	Traceability in the supply chain and what it means.
13:45 to 14.45	IECQ OD3702 Traceability audit for materials and electronics for AS9100 and ISO9001 supply chains
14.45 to 15:00	Tea/coffee break
15:00 to 16.00	SAE AS5553 for electronic assemblers and OEMs
16.00 to 17:00	IEC TS62668-1 for Avionics electronic/electrical OEMs and how SAE AS5553 can be used towards compliance
Time (Day 4)	Topic
9:00 to 10:00	IEC 62239-1 clause 4.6.2 and 4.6.3: Obsolescence Management to IEC 62402 and GEIA STD-0016 and examples
10:00 to 10:15	Tea/coffee break
10:15 to 11:00	SAE AS6081 scheme for non-franchised distributors
11:00 to 12:00	Examples and discussion
12:00 to 13:00	Lunch
13:00 to 15:00	IECQ AP-CAP and ADHP ECMP part 1 open book exam
15:00 to 15:15	Tea/coffee break
15:15 to 17:00	IECQ ADHP ECMP part 2 open book exam
17:00 to 17: 30	Wrap up and finish

Course Packet Includes:

- IECQ IEC TS 62239-1 reference manual for conformity audits (IECQ ADHP & CAP Training Material Pack – Hard Copy),
- IECQ Rules of Procedures IECQ 03-4, IECQ 03-7 and audit checklists,

Notes:

- 1) *Course material and agenda are tentative and subject to change.*
- 2) *Exercises and Case Studies have been based on real world experiences and examples...*