



2024 IECQ ECMP & CAP Training Workshop – Remote (IECQ ADHP & CAP Services)

IECQ Aerospace, Defense, and High Performance (ADHP) Component Management Service (IECQ ADHP) for Electronic Component Management Plans (ECMP)

- Attendance 5 Days, 08th to 10th May 2024
 13th to 14th May 2024

IECQ Counterfeit Avoidance Programme Service (IECQ AP-CAP)

- Attendance 2 Days, 13th to 14th May 2024

Workshops run May 2024 – CST ‘Houston Time Zone’

Special Notice – 2hr time change, New Start times are 08:00 AM CST

Workshop Participants Limited to 20

IEC Quality Assessment System for Electronic Components (IECQ)





IECQ ADHP & CAP Services Resource Training Workshops – Remote Deployment

2024 IECQ Global Remote Deployment Training Workshops IECQ 5-Day ADHP & CAP Training Workshop date:

Time zone: CST 'Houston Time Zone'

Dates and Time:

This training meets 5 times. Attendees are expected to attend all 5 sessions and complete the pre-workshop e-Learning modules that are included.

- Two weeks before Start, (IECQ On-line pre-workshop e-Learnings modules)
- Wed, May 08, 2024, 8:00 AM - 3:30 PM CST
 - 14:00 PM - 21:30 PM GMT
- Thu, May 09, 2024, 8:00 AM - 3:30 PM CST
 - 14:00 PM - 21:30 PM GMT
- Fri, May 10, 2024, 8:00 AM - 3:30 PM CST
 - 14:00 PM - 21:30 PM GMT
- Mon, May 13, 2024, 8:00 AM - 3:00 PM CST
 - 14:00 PM - 21:00 PM GMT
- Tue, May 14, 2024, 8:00 AM - 12:30 PM CST
 - 14:00 PM - 18:30 PM GMT

CST 'Houston Time Zone' 8 AM, = GMT 'London Time Zone' 14 PM

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

IECQ Master Tutors: Jo Vann, Dave Ryan & Chris Allabush

Workshop Language: English (this workshop will not utilise live translation)
[English Quiz's & Exams]

!! Important Please Take Note !!

**Registrations must be sent to Donna Croft (info@iecq.org or donna.croft@iecq.org)
using the attached form to secure a place before 12th April 2024.**

PLEASE NOTE!! All registered and accepted participants will be sent unique individualised links for each Face-to-Face session, Quiz and Exams to your registered email addresses preceding and during the training workshop, these are not common links and cannot be shared.



IECQ ADHP & CAP Services Resource Training Workshops – Remote Deployment

Who is this workshop aimed at?

This combined IECQ ADHP & IECQ 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.

This IECQ ADHP workshop is aimed at **IECQ CB Resources ONLY**, including, but not limited to, Sales, Contract administration, Internal Auditors (**currently holding AS9100 or equivalent internal auditor competence**), External Auditors (**currently holding AS9100 external auditor competence**), Industry Experts seeking IECQ TE status, and IECQ CB Technical reviewers/decision makers.

This IECQ AP-CAP workshop covers Counterfeit Avoidance audit schemes for both electronics and mechanical industries (with more emphasis on the electronic industries) and is aimed at similar **IECQ CB Resources ONLY** but their prior knowledge may be ISO9001 competence for conducting IECQ CAP assessments within general industry. See IECQ 03-7 and IECQ OD 3707 for further details.

Those participants that successfully undertake and pass the Quiz's and Exams 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 general requirements of IECQ OD 010 and the specific requirements of IECQ OD 3403 and IECQ OD 3707 for IECQ Assessors / Lead Assessors in accordance with the rules.

“IECQ CB Resources” whose primary/principal occupation is a resource for IECQ CB's, please provide confirmation in the form of signed letter on Certification Body letterhead from at least one IECQ CB.

IECQ 5-Day ADHP & CAP Training Contribution Fee:

A small contribution fee of CHF1000 (for ADHP) and CHF400 (for CAP only) applies for each participant to the workshop. *Please note this contribution fee is based on a minimum class of 10 participants, if this number is not achieved the training workshop will be offered at an adjusted or set fee or postponed.*

This fee covers the participant's attendance at the 5-day workshop and an IECQ Certificate of Attendance.

Owing to the demand for IECQ Training Workshops and participant number limitations, registrations and payments are to be finalised before closing dates to secure a place. Registrations are not refundable. Due consideration to providing a registration place, credit may be given for any extraordinary circumstances on a case-by-case basis; however, it will not be the norm.

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
- Have read and attained basic knowledge of IECQ 03-4 IECQ ADHP Scheme Rules of Procedure
 - (1) Conformity Certification approach IECQ OD 3405,



IECQ ADHP & CAP Services Resource Training Workshops – Remote Deployment

- (2) Subcontractor Assembly Certification IECQ OD 3407-1,
- Have read and attained basic knowledge of IECQ 03-7 IECQ AP-CAP Scheme Rules of Procedure
- **Have basic knowledge of** associated referenced standards like (have read and access to) IEC TR 62240-2, SAE ARP6338, IEC TR 62240-1, IEC 62402, GEIA STD-0016, IEC 62668-1, IEC 62668-2, SAE AS5553, IEC TS 62239-2, SAE EIA-933, IEC 62647 series, GEIA-STD-0005, SAE AS 6081, SAE AS 6496, SAE AS 6171 etc.,

Provide (Have ready access to):

- Computer and or tablet **reliably connected** to the internet – quizzes and exams will be taken electronically on-line. You will require reliable 'unblocked' access to <https://iecq.onlinetests.app/> and either <https://iframe.dacast.com/> or <https://player.vimeo.com/> from your web browser. The usual Remote Presentation platform that will be used is **Team's**. The exams at the end of Day 3 and Day 5 along with the pre-requisite on-line training modules will be initiated via unique individual **email links**, **you will require reliable access to the email account which you have provided at registration**.

Please take note, to ensure a better learning experience it is advisable to have at least two screens available one for following the tutor's presentation and for undertaking Quiz and Exams and the other used for reference materials, electronic handouts et c...

- A link to the training workshop materials folder and the participant's Team's platform login link will be provided prior to the workshop start date.
- Your own electronic or hard copies of IEC 62239-1, IEC 62668-1, SAE AS5553, IEC 62402 etc... IECQ is not able to provide any industry referenced standards, only publications published by IECQ System.
- We recommend each participant to print out the IEC 62239-1:2018 Handbook for quick reference during the workshop.

Be prepared to actively participate:

- During the workshop days – be alert and participate.
- Phone calls and Email should only be undertaken during the breaks.
- Be involved and contribute to discussions and exercises.
- 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 eight days – breaks excluded.





IECQ ADHP & CAP Services Resource Training Workshops – Remote Deployment

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IECQ 5-Day ECMP & CAP Resource Training Registration:

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

Workshop Location: Global Remotely
Participant(s) from IECQ CB's

Dates: May 2024
Workshop Number: TWSAR19

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:

- 5 Days**, IECQ Aerospace, Defense, and High Performance (ADHP) Component Management Scheme (IECQ ADHP Scheme) @CHF 1000 per participant
- 2 Days**, IECQ Counterfeit Avoidance Programme (IECQ AP-CAP) @ CHF400 per participant

Please select a payment method:

- IECQ CB Members** Please invoice in CHF including a wire transfer fee to IECQ CB as detailed above
- IECQ CB Resources paying directly** Please invoice in CHF and provide a Payment Service link so I can pay by my Credit Card.

Types of International Credit Cards accepted MasterCard and Visa.

Registrations are not refundable.



IECQ ADHP & CAP Services Resource Training Workshops – Remote Deployment

IECQ ADHP & CAP Resource Training Workshops run over 5-days:
Mandatory On-Line Pre-workshop e-Learning Modules.

Estimated	On-Line e-Learning Topics
10 Minute Tutorial	IECQ Conformity Assessment System – An Introduction (Q-M30-U01, informative)
100 Minute Tutorial 30 Minute Exam	IECQ General Rules & Procedures – What to know (Q-M31-U01, includes Exam)
70 Minute Tutorial 20 Minute Quiz	Basic Introduction to Electronic Components – Microcircuits, Diodes and Transistors (Q-M30-U21, includes Quiz)
40 Minute Tutorial 10 Minute Quiz	Basic Introduction to Electronic Components – Capacitors (Q-M30-U23, includes Quiz)
35 Minute Tutorial 10 Minute Quiz	Basic Introduction to Electronic Components – Resistors (Q-M30-U24, includes Quiz)
30 Minute Tutorial 15 Minute Quiz	Basic Introduction to Electronic Components – COTS Components and COTS Assemblies (Q-M30-U27, includes Quiz)
35 Minute Tutorial	IECQ ADHP Scheme – An introduction (Q-M34-U01, informative)
105 Minute Tutorial 30 Minute Exam	IECQ ADHP Scheme Rules & Procedures (Q-M34-U02, includes Exam)
18 Minute Tutorial	IECQ CAP Scheme – An introduction (Q-M37-U01, informative)
60 Minute Tutorial 30 Minute Exam	IECQ CAP Scheme Rules & Procedures (Q-M37-U02, includes Exam)
65 Minute Tutorial 10 Minute Quiz	Why an ECMP is required (Q-M30-U03, includes Quiz)
40 Minute Tutorial 10 Minute Quiz	Overview of Referenced Standards (Q-M30-U04, includes Quiz)
60 Minute Tutorial 30 Minute Exercise & Quiz	Understanding Plans and Guidance for reviewing them (IECQ OD 3010 with examples) + IECQ OD 3010 Understanding Plans and Guidance for reviewing them – Electronic Handout + IEC 62239-1:2018 Reference Handbook – Electronic Handout (Q-M30-U10, includes Quiz)

The mandatory online pre-workshop e-learning modules will be opened after the registration closing date, approximately two weeks before the workshop's commencement date.

These pre-workshop e-learning modules may be completed at your own pace over the provided period; however, they must be fully completed before the Workshop commences.

The Quiz and Exam times detailed above are estimates only. In most cases, they will take less time.



IECQ ADHP & CAP Services Resource Training Workshops – Remote Deployment

Days 1 thru 3 are Face to Face (Remotely Deployed)

Topic: **Electronic Component Management Plan (ECMP)**

Each Day includes Class Exercises and Quiz Sessions. Day 3 ECMP Exam.

Time (Day 1) Houston Time Zone	Electronic Component Management Plan Topics Face to Face (Remotely Deployed)
8:00 to 8:45 CST 14:00 to 14:45 GMT 21:00 to 21:45 BJT	IECQ ADHP Workshop Introduction, Objectives, e-Learning Feedback / Clarification
8:45 to 9:20 CST 14:45 to 15:20 GMT 21:45 to 22:20 BJT	IEC 62239-1:2018 Clause 4.1, General
9:20 to 10:05 CST 15:20 to 16:05 GMT 22:20 to 23:05 BJT	IEC 62239-1:2018 Clause 4.2, Component Selection
10:05 to 10:15 CST 16:05 to 16:15 GMT 23:05 to 23:15 BJT	Session Break
10:15 to 10:35 CST 16:15 to 16:35 GMT 23:15 to 23:35 BJT	IEC 62239-1:2018 Clause 4.3, Component Application Clause 4.3.1, General
10:35 to 10:45 CST 16:35 to 16:45 GMT 23:35 to 23:45 BJT	IEC 62239-1:2018 Clause 4.3, Component Application Clause 4.3.2, Electromagnetic Compatibility (EMC)
10:45 to 10:55 CST 16:45 to 16:55 GMT 23:45 to 23:55 BJT	IEC 62239-1:2018 Clause 4.3, Component Application Clause 4.3.3, Derating and stress analyse
10:55 to 11:55 CST 16:55 to 17:55 GMT 23:55 to 00:55 BJT	Session Break
11:55 to 12:40 CST 17:55 to 18:40 GMT 00:55 to 01:40 BJT	IEC 62239-1:2018 Clause 4.3, Component Application Clause 4.3.3.3, Uprating
12:40 to 12:50 CST 18:40 to 18:50 GMT 01:40 to 01:50 BJT	IEC 62239-1:2018 Clause 4.3, Component Application Clause 4.3.4, Thermal Analysis
12:50 to 13:00 CST 18:50 to 19:00 GMT 01:50 to 02:00 BJT	IEC 62239-1:2018 Clause 4.3, Component Application Clause 4.3.5, Mechanical analysis
13:00 to 13:10 CST 19:00 to 19:10 GMT 02:00 to 02:10 BJT	IEC 62239-1:2018 Clause 4.3, Component Application Clause 4.3.6, Testing, Testability, & Maintainability
13:10 to 14:00 CST 19:10 to 20:00 GMT 02:10 to 03:00 BJT	IEC 62239-1:2018 Clause 4.3, Component Application Clause 4.3.7, Avionics Radiation environment
14:00 to 14:10 CST 20:00 to 20:10 GMT 03:00 to 03:10 BJT	Session Break



IECQ ADHP & CAP Services Resource Training Workshops – Remote Deployment

14:10 to 15:30 CST 20:10 to 21:30 GMT 03:10 to 04:30 BJT	Exercises on ‘The Aerospace Company’ ECMP – Group Plan exercises utilising the IECQ OD 3010 tools set
	Session Quiz – Is Optional

Time (Day 2) Houston Time Zone	Electronic Component Management Plan Topics Face to Face (Remotely Deployed)
8:00 to 8:55 CST 14:00 to 14:55 GMT 21:00 to 21:55 BJT	IEC 62239-1:2018 Clause 4.3, Component Application Clause 4.3.8, Management of lead-free termination finish
8:55 to 9:15 CST 14:55 to 15:15 GMT 21:55 to 22:15 BJT	IEC 62239-1:2018 Clause 4.3, Component Application Clause 4.3.9, Counterfeited, Fraudulent and Recycled Component Avoidance
9:15 to 09:25 CST 15:15 to 15:25 GMT 22:15 to 22:25 BJT	IEC 62239-1:2018 Clause 4.3, Component Application Clause 4.3.10, Moisture and Corrosion
9:25 to 9:45 CST 15:25 to 15:45 GMT 22:25 to 22:45 BJT	IEC 62239-1:2018 Clause 4.3, Component Application Clause 4.3.11, Additional Customer Related Application Requirements
9:45 to 9:50 CST 15:45 to 15:50 GMT 22:45 to 22:50 BJT	IEC 62239-1:2018 Clause 4.4, Component Qualification Clause 4.4.1, General
9:50 to 10:00 CST 15:50 to 16:00 GMT 22:50 to 23:00 BJT	Session Break
10:00 to 11:00 CST 16:00 to 17:00 GMT 23:00 to 00:00 BJT	IEC 62239-1:2018 Clause 4.4, Component Qualification Clause 4.4.2, Minimum component qualification requirements Clause 4.4.3, Original component manufacturer quality management Clause 4.4.4, Original component manufacturer process management approval Clause 4.4.5, Demonstration of component qualification Clause 4.4.6, Qualification of components from a supplier that is not qualified
11:00 to 11:20 CST 17:00 to 17:20 GMT 00:00 to 00:20 BJT	IEC 62239-1:2018 Clause 4.4, Component Qualification Clause 4.4.7, Distributor Process Management Approval
11:20 to 12:15 CST 17:20 to 18:15 GMT 00:20 to 01:15 BJT	IEC 62239-1:2018 Clause 4.4, Component Qualification Clause 4.4.8, Subcontractor Assembly Facility Quality
12:15 to 13:15 CST 18:15 to 19:15 GMT 01:15 to 02:15 BJT	Session Break
13:15 to 13:50 CST 19:15 to 19:50 GMT 02:15 to 02:50 BJT	IEC 62239-1:2018 Clause 4.5, Continuous Component Quality Assurance Clause 4.5.1, General quality assurance requirements Clause 4.5.2, Ongoing component quality assurance Clause 4.5.3, Plan owner in-house continuous monitoring



IECQ ADHP & CAP Services Resource Training Workshops – Remote Deployment

13:50 to 14:10 CST 19:50 to 20:10 GMT 02:50 to 03:10 BJT	IEC 62239-1:2018 Clause 4.5.4, Component design and manufacturing process change monitoring
14:10 to 14:20 CST 20:10 to 20:20 GMT 03:10 to 03:20 BJT	Session Break
14:20 to 15:20 CST 20:20 to 21:20 GMT 03:20 to 04:20 BJT	Exercises on ‘The Aerospace Company’ ECMP – Group Plan exercises utilising the IECQ OD 3010 tools set
	Session Quiz – Is Optional

Time (Day 3) Houston Time Zone	Electronic Component Management Plan Topics Face to Face (Remotely Deployed)
8:00 to 8:50 CST 14:00 to 14:50 GMT 21:00 to 21:50 BJT	IEC 62239-1:2018 Clause 4.6, Component dependability
8:50 to 9:05 CST 14:50 to 15:05 GMT 21:50 to 22:05 BJT	IEC 62239-1:2018 Clause 4.6.7, Semiconductor reliability, wear out and lifetime
09:05 to 9:20 CST 15:05 to 15:20 GMT 22:05 to 22:20 BJT	IEC 62239-1:2018 Clause 4.6.8, Reliability assessment
9:20 to 9:45 CST 15:20 to 15:45 GMT 22:20 to 22:45 BJT	IEC 62239-1:2018 Clause 4.7, Component compatibility with the equipment manufacturing process
9:45 to 9:55 CST 15:45 to 15:55 GMT 22:45 to 22:55 BJT	Session Break
9:55 to 10:25 CST 15:55 to 16:25 GMT 22:55 to 23:25 BJT	IEC 62239-1:2018 Clause 4.8, Component data
10:25 to 10:50 CST 16:25 to 16:50 GMT 23:25 to 23:50 BJT	IEC 62239-1:2018 Clause 4.9, Configuration control
10:50 to 11:30 CST 16:50 to 17:30 GMT 23:50 to 00:30 BJT	IEC 62239-1:2018 Clause 5, Plan administration requirements
11:30 to 12:30 CST 17:30 to 18:30 GMT 00:30 to 01:30 BJT	Session Break
12:30 to 12:50 CST 18:30 to 18:50 GMT 01:30 to 01:50 BJT	Exercises on ‘The Aerospace Company’ ECMP – Group Plan exercises utilising the IECQ OD 3010 tools set
12:50 to 13:10 CST 18:50 to 19:10 GMT 01:50 to 02:10 BJT	Recap – Revision and Questions before Exam
13:10 to 13:20 CST 19:10 to 19:20 GMT 02:10 to 02:20 BJT	Session Break



IECQ ADHP & CAP Services Resource Training Workshops – Remote Deployment

13:20 to 15:30 CST 19:20 to 21:30 GMT 02:20 to 04:30 BJT	Auditor / Resource Knowledge ADHP (ECMP) Exam (2.0 hours 10 minutes) – Reading & Audit Deficient Plan using the IECQ OD 3010 Toolset 70minutes – ADHP (ECMP) Exam Questions 1hr
	Session Quiz – Is Optional

Notes:

- 1) Course material and agenda are tentative *and subject to change*.
- 2) Class Exercises are based around fictional Deficient Plans that have been developed from real world experiences...



IECQ ADHP & CAP Services Resource Training Workshops – Remote Deployment

Days 4 and 5 are Face to Face (Remotely Deployed)

Topic: **Counterfeit Avoidance Plan (CAP)**

Each Day includes Class Exercises and Quiz Sessions. Day 5 CAP Exam.

Time (Day 4) Houston Time Zone	Counterfeit Avoidance Plan Topics Face to Face (Remotely Deployed)
8:00 to 8:10 CST 14:00 to 14:10 GMT 21:00 to 21:10 BJT	IECQ ADHP / CAP Workshop Introduction, Objectives and Deficient Plan
8:10 to 9:10 CST 14:10 to 15:10 GMT 21:10 to 22:10 BJT	Q-M37-U03 Anti-counterfeit Overview and External Standards
9:10 to 9:55 CST 15:10 to 15:55 GMT 22:10 to 22:55 BJT	Q-M37-U04 Anti-counterfeit Traceability Overview
9:55 to 10:05 CST 15:55 to 16:05 GMT 22:55 to 23:05 BJT	Session Break
10:05 to 10:30 CST 16:05 to 16:30 GMT 23:05 to 23:30 BJT	Q-M37-U07 IECQ OD 3701, Conformity Audit - Traceability Audit
10:30 to 11:20 CST 16:30 to 17:20 GMT 23:30 to 00:20 BJT	Q-M37-U06 IECQ 03-7, Conformity Audit - AS5553 Rev C
11:20 to 12:20 CST 17:20 to 18:20 GMT 00:20 to 01:20 BJT	Q-M37-U05 IECQ 03-7, Conformity Audit - IEC 62668-1 and IEC 62668-2
12:20 to 13:20 CST 18:20 to 19:20 GMT 01:20 to 02:20 BJT	Session Break
13:20 to 14:00 CST 19:20 to 20:00 GMT 02:20 to 03:00 BJT	Q-M37-U08 IECQ 03-7, Conformity Audit - AS6496 Franchised Distributor
14:00 to 14:10 CST 20:00 to 20:10 GMT 03:00 to 03:10 BJT	Session Break
14:10 to 15:10 CST 20:10 to 21:10 GMT 03:10 to 04:10 BJT	Exercises on ‘Semiconductor Test House’ CAP – Group Plan exercises utilising the IECQ OD 3010 tools set
	Session Quiz – Is Optional



IECQ ADHP & CAP Services Resource Training Workshops – Remote Deployment

Time (Day 5) Houston Time Zone	Counterfeit Avoidance Plan Topics Face to Face (Remotely Deployed)
8:00 to 8:40 CST 14:00 to 14:40 GMT 21:00 to 21:40 BJT	Q-M37-U09 IECQ 03-7, Conformity Audit - AS6081 Non-franchised Distributor
8:40to 9:10 CST 14:40 to 15:10 GMT 21:40 to 22:10 BJT	Exercises on ‘Semiconductor Test House’ CAP – Group Plan exercises utilising the IECQ OD 3010 tools set
9:10 to 9:20 CST 15:10 to 15:20 GMT 22:10 to 22:20 BJT	Session Break
9:20 to 9:50 CST 15:20 to 15:50 GMT 22:20 to 22:50 BJT	Recap – Revision and Questions before Exam
9:50 to 10:00 CST 15:50 to 16:00 GMT 22:50 to 23:00 BJT	Session Break
10:00 to 12:10 CST 16:00 to 18:10 GMT 23:00 to 01:10 BJT	Auditor / Resource Knowledge ADHP (CAP) Exam (2.0 hours 10 minutes) – Reading & Audit Deficient Plan using the IECQ OD 3010 Toolset 70minutes – ADHP (CAP) Exam Questions 1hr
	Session Quiz – Is Optional

Notes:

- 3) Course material and agenda are tentative *and subject to change*.
- 4) Class Exercises are based around fictional Deficient Plans that have been developed from real world experiences...