



INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

An Introduction to the IECEx Certified Service Facility Scheme

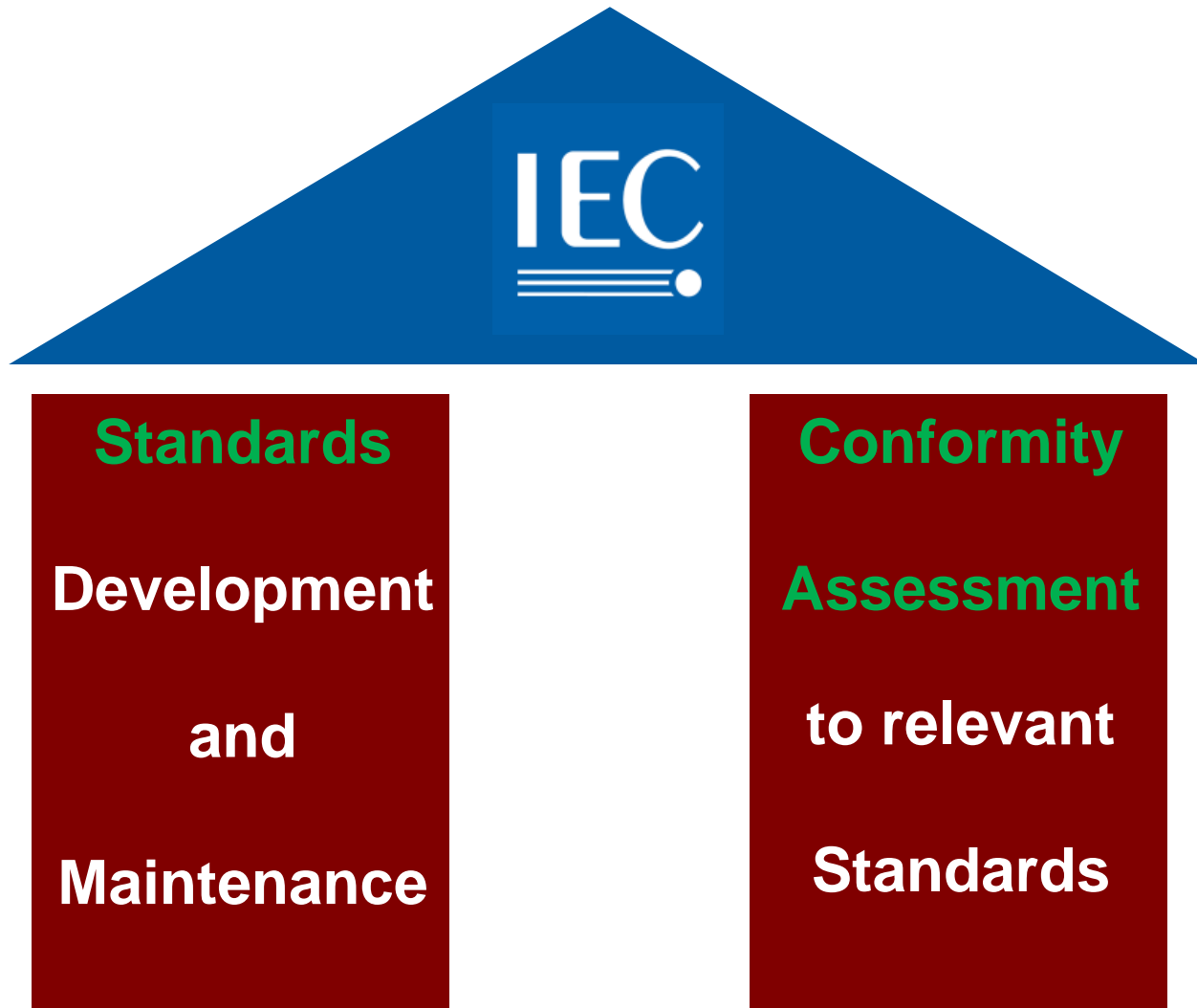


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February 2018



Pillars of the IEC building





Pillars of the IEC building



**Conformity
Assessment**
to relevant
Standards



Standards put into practice...

Conformity Assessment systems provide **independent verification** of claims of **compliance** with Standards related to:

- safety
- performance
- reliability
- inter-operatability
- competence

on the basis of testing and assessment of production processes, people and management systems



IEC's Conformity Assessment Systems

24 Member IEC Board on Conformity Assessment (CAB)

IECEE

System of Conformity Assessment Schemes for Electrotechnical Equipment and Components

CB Scheme

CB-FCS Scheme

PV Programme

E3 Energy Efficiency

Hazardous Substances

IECEX

System for Certification to Standards Relating to Equipment for use in Explosive Atmospheres

Ex Equipment

Ex Services

Ex Personnel

IECQ

Quality Assessment System for Electronic Components, assemblies, materials and related processes

Components + assemblies

Processes

HSPM

Avionics

LED Lighting

IECRE

System for certification to Standards relating to equipment for use in renewable energy applications

Wind Energy

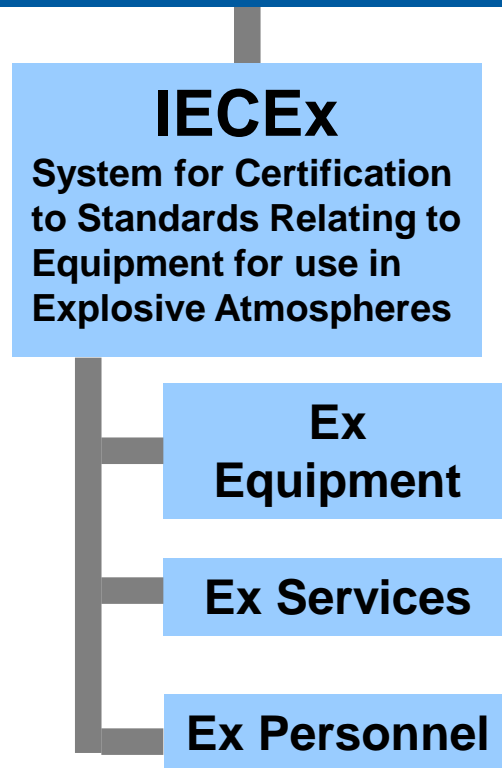
Marine Energy

PV Solar



IEC's Conformity Assessment Systems

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IECEX System & Schemes

IEC System for Certification to Standards Relating to Equipment for use in Explosive ('Ex') Atmospheres.





IECEX System & Schemes

IEC System for Certification to Standards Relating to Equipment for use in Explosive (“Ex”) Atmospheres.



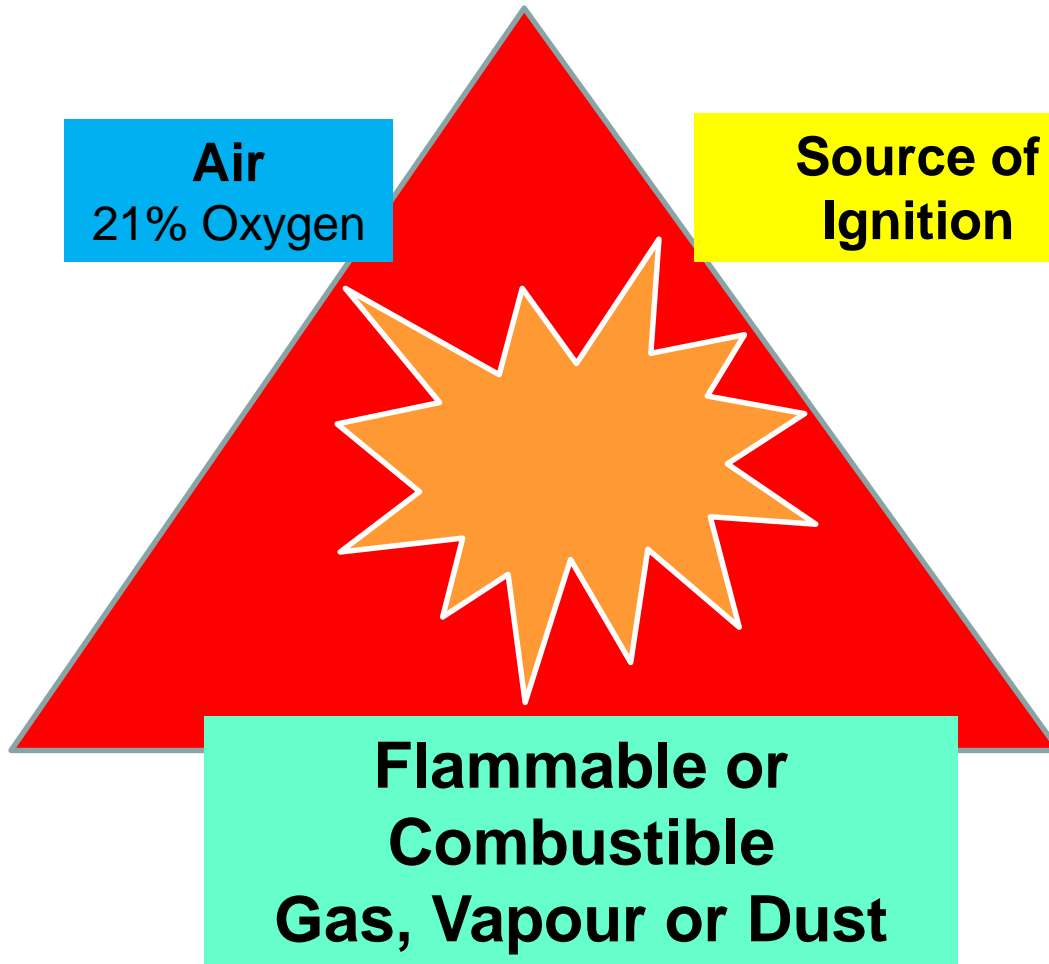


“Ex” is not an Industry of its own!

“Ex” is part of almost every Industry known to Man ... examples include:

- Automotive refuelling stations or petrol stations
- Oil + gas extraction
- Oil refineries, rigs and processing plants
- Gas pipelines and distribution centres
- Chemical processing plants
- Printing industries, paper and textiles
- Hospital operating theatres
- Aircraft refuelling and hangars
- Surface coating industries
- Coal mining
- Sewerage treatment plants
- Grain handling and storage
- Woodworking areas
- Sugar refineries, storage , packaging + distribution
- Metal surface grinding, eg aluminium dusts and particles.
- Transportation
- Pharmaceuticals
- Food processing
- Furniture manufacturer
- many others

Cause of explosions ...

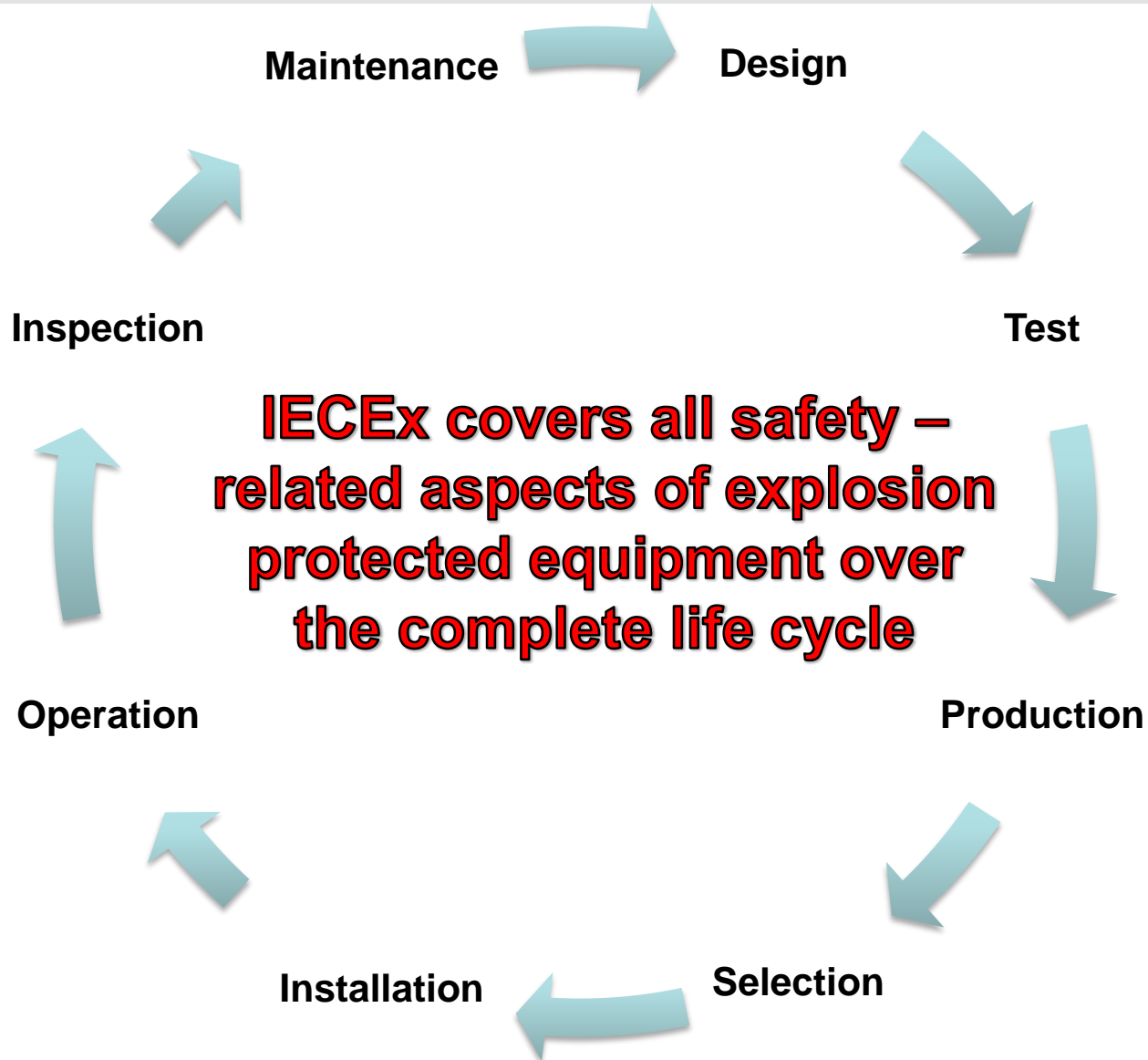


IGNITION SOURCES

- Electrical Arcing and Sparking
- Mechanical Sparks
- Welding
- Naked Flames
- Hot Gases
- Incandescent Materials
- Hot Surfaces
- Electromagnetic Radiation
- Ionising Radiation
- HF Radiation
- Lasers
- Exothermic Chemical Reactions
- Ultrasonics
- Lightning
- Static Electricity
- Adiabatic Compressions
- Cathodic Protection Currents



Product Lifecycle Coverage





Schemes within the IECEx System

IECEx System

IECEx Equipment Scheme

Certification of Ex Equipment



IECEx Conformity Mark License Scheme



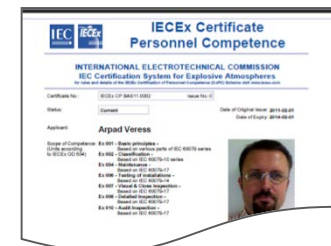
IECEx Services Scheme

Certification of Ex Service Providers



IECEx Certified Persons Scheme (CoPC)

Competency to work in Ex field





Scope and Standards for IECEx include ...

- Electrical Equipment Conformance to **IEC 60079 Series** and **IEC 61241 Series** requirements
- Non-electrical Equipment to **ISO/IEC 80079 Series**
- Hazardous Area Classification to **IEC 60079-10**
- Ex Equipment Installation and Inspection to **IEC 60079-14** and **IEC 60079-17** requirements
- Ex Equipment Maintenance, Repair, Overhaul and Reclamation to **IEC 60079-19**
- Personnel Competence to **ISO/IEC 17024**



Schemes within the IECEx System

IECEx System

IECEx Equipment Scheme
Certification of Ex Equipment



IECEx Conformity Mark License Scheme



IECEx Services Scheme
Certification of Ex Service Providers



IECEx Certified Persons Scheme (CoPC)
Competency to work in Ex field





IECEX Certified Service Facility Scheme

Certifying providers of

- *Design*
- *Selection*
- *Installation*
- *Inspection*
- *Maintenance*
- *Repair*
- *Overhaul*
- *Reclamation*

services on Ex Equipment





IECEX Services Scheme – Repair Workshops

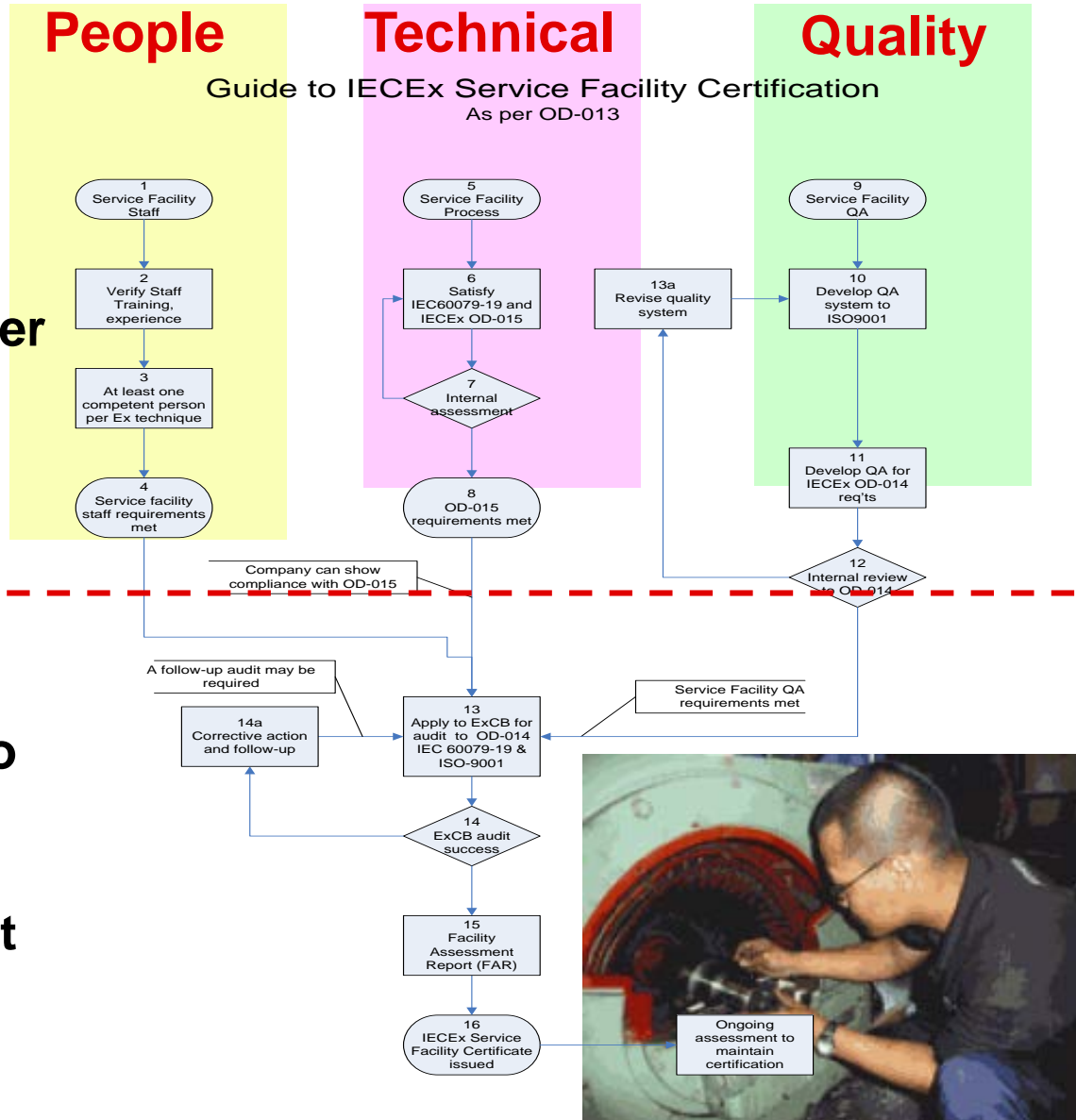
Ex Equipment High Capital cost

Ex Equipment usually Cheaper to Repair than Replace!

Incorrect Repairs can compromise inherent Ex protection

IECEX Certifies Workshops to IEC 60079-14, -17 and -19

IECEX 03A Guide to Applicant Workshops www.iecex.com

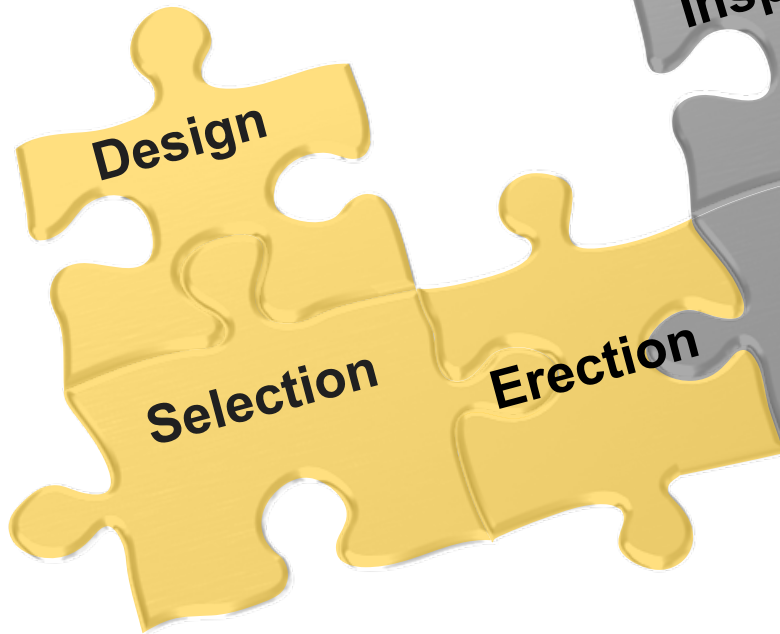




Relevant IEC "Service" Standards

IEC 60079-19

IEC 60079-14



IEC 60079-17





IECEX Certified Service Facilities Scheme

Assesses and certifies that organizations and workshops that provide Ex equipment installation, inspection, repairs, maintenance, overhaul and reclamation services to the Ex industry work in accordance with the requirements of IEC International Standards IEC 60079-14 and IEC 60079-19.

The system includes on-site audits prior to issuing the IECEx Certificate and periodic audits to ensure Repair and Overhaul processes continue to comply with requirements and provides a:

- **Facility Assessment Report (FAR)**

- **IECEX Service Facility Certificate of Conformity (CoC)**

and is supported by the IECEx CoPC Scheme



IECEX On-Line Certificate System



INTERNATIONAL ELECTROTECHNICAL COMMISSION SYSTEM
FOR CERTIFICATION TO STANDARDS RELATING TO EQUIPMENT
FOR USE IN EXPLOSIVE ATMOSPHERES (IECEX SYSTEM)

- Information ▾
- Publications ▾
- Members' Area ▾
- Certificates & Licences ▾**
- Meetings & Events ▾
- Contact
- Home

News Releases

Explosions avoided

IECEX, UNECE and IEC Brazilian NC conference on safety in the Ex field

Preventing dust explosions

IECEX certification provides high level of protection

Mining: A high-risk activity

IECEX ensures protection and safety for Ex equipment and workforce

Competitive advantages

IECEX present at Australasian Oil and Gas Exhibition and Conference

IECEX launches first mobile app

to show international certificates for equipment used in explosive atmospheres

IECEX-AFSEC seminar in Africa



IECEX Malaysia 2014

Kuala Lumpur 19-20 February 2014

Organized by the IEC and IECEX, together with Department of Standards Malaysia, and in conjunction with UNECE (United Nations Economic Commission for Europe), the 2014 IECEX International Conference will take place on 19 and 20 February 2014.

[More information from the meeting website](#)

Quick Links

- IECEX Certificates and Licences
- Certification Bodies (ExCBs) - Equipment
- Certification Bodies (ExCBs) - Service Facilities
- Certification Bodies (ExCBs) - Certified Persons
- Certification Bodies (ExCBs) - Conformity Mark
- ExTAG Decision Sheets List
- IEC TC31 & IECEX Meeting Schedule

Featured



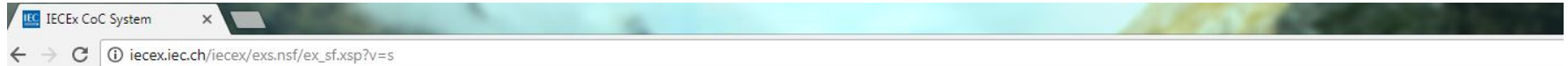
IECEX systems endorsed by UNECE



IECEX mobile apps



IECEX Certified Service Facility Scheme




**INTERNATIONAL ELECTROTECHNICAL COMMISSION SYSTEM
FOR CERTIFICATION TO STANDARDS RELATING TO EQUIPMENT
FOR USE IN EXPLOSIVE ATMOSPHERES**

For ExCBs only [Log in](#)

- CERTIFIED EQUIPMENT
- CONFORMITY MARK LICENSES
- CERTIFIED SERVICE FACILITIES**
- CERTIFIED PERSONS
- TOOLS

Information

IEC System for Certification to Standards relating to Equipment for use in Explosive Atmospheres (IECEX System)
 IECEX Certificates of Certified Service Facility Scheme enables:
 IECEX Certification Bodies to issue new IECEX Certificates of Conformity On-line.
 Full Public access to consult, view and print issued IECEX Certificates.

[Click here for a link to the INSTRUCTIONS FOR USE.](#)
 For any questions, please contact Mr. Chris Agius, IECEX Secretary.



Certificates Facility Assessment Reports

Certificate no.	Year	ExCB	Location	Applicant	Free text	Reset	Search
<input type="text"/>	- All -	- All -	- All -	<input type="text"/>	<input type="text"/>		

Previous 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | Next

Certificate no.	Date	ExCB	Location	Applicant	Protection type
IECEX DEK S0029 issue 0	2017-06-28	DEK	The Netherlands	Facta Spijkenisse B.V.	03-5 Program - Repair Overhaul and Reclamation Flameproof Enclosure 'd' Increased Safety 'e' Oil Filled 'o' Other Pressurisation 'p' Type of Protection 'n'
IECEX KEM S0011 issue 2	2017-06-26	KEM	The Netherlands	Jrs Rotating Service B.V.	Other
IECEX BAS S0025 issue 1	2017-06-21	BAS	United Kingdom	Eriks Distribution And Engineering	Flameproof Enclosure 'd' Increased Safety 'e'



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Thank you for your attention



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