



ENERGY INDUSTRY OFFSHORE SHIPPING SUBSEA

24.04.2013

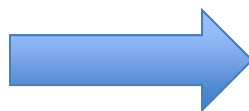
www.karsten-moholt.no



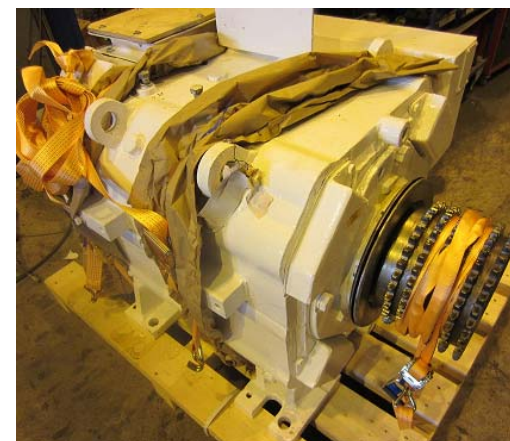
IECEX Certified Service Facility
for repair and overhaul of Ex equipment.



Before



After



2015 IECEX International Conference :
Gdańsk, Poland,
22 - 23 April 2015

By Thaison Vu, Ex Certification Manager, Karsten Moholt.

Today's main topic

- How and why Karsten Moholt AS choose to become IECEx certified service facility.
- How was the Certification process? Step by Step.
- Where and how you can find relevant IECEx documents. Standards, Rules and procedures etc.
- Karsten Moholt AS future plans for expansion of IECEx certification scope.

Thaison vu Background & Experience



***Master of Science in electronic engineering.
Linköping Technical University, Sweden***



***NEMKO AS.
Testing & Certification***



***DNV NEMKO Presafe AS.
Testing & Certification***



Thaison vu Background and experience



***Ex Certification Manager
Repair and Overhaul***



***Offshore inspection and
new build FPSO***



IEC and committees:

Karsten Moholt AS

History



Karsten Moholt, the founder establishes his winding workshop in Bergen with 3 employees in 1945.



The founder's son Karsten Moholt Junior takes over the company 1991. 25 to 150 people.

Karsten Moholt AS

History



Karsten Alexander Moholt grandson of the founder, joins the company.



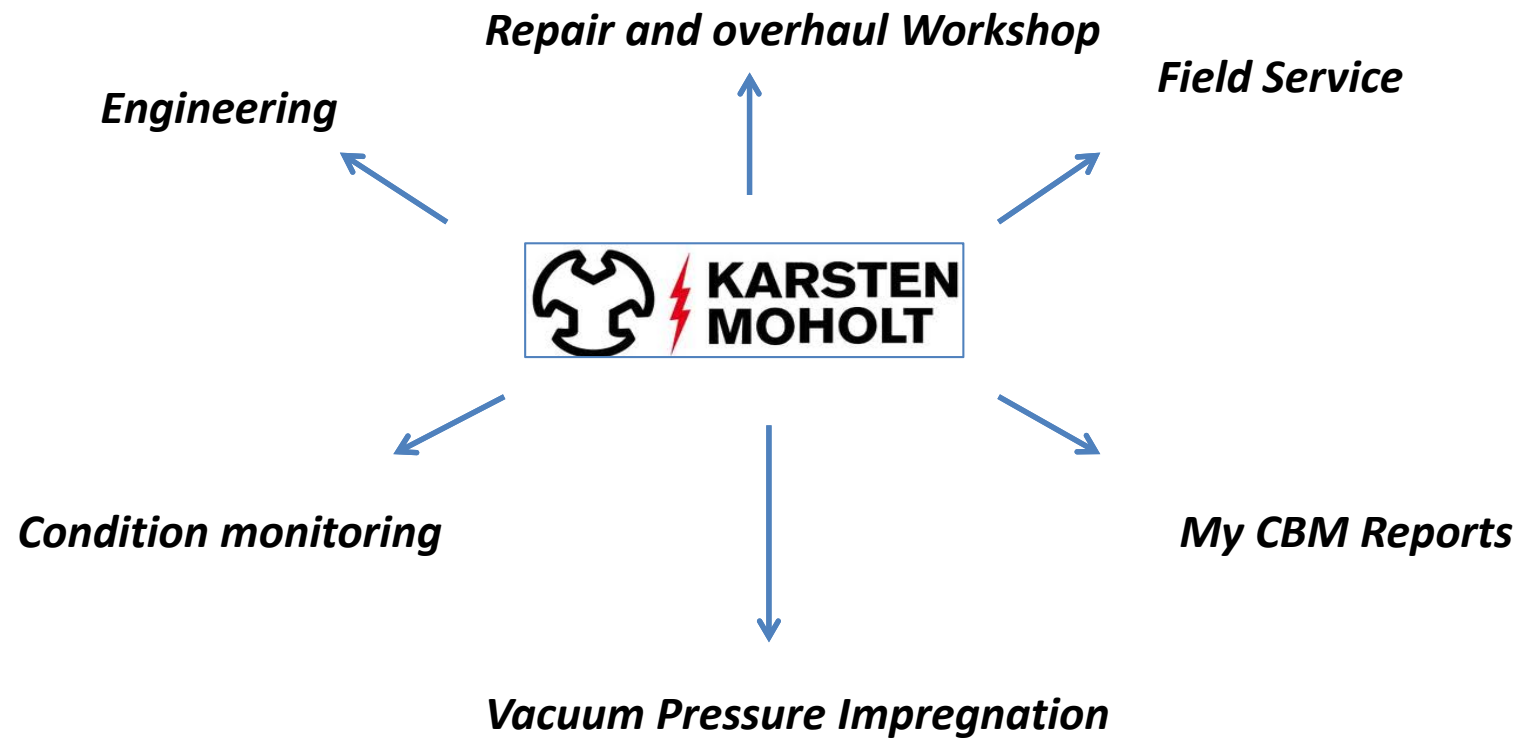
Linn Cecilie Moholt the third generation of Moholt to join the company.



Karsten Moholt Junior ,Linn Cecilie Moholt and Karsten Alexander Moholt

Karsten Moholt AS

Main Service





Karsten Moholt AS

History



Karsten Moholt Jr. and his son Karsten Alexander Moholt are both killed in the Air France flight from Rio de Janeiro to Paris that crashed in 2009.



Linn Cecilie Moholt, who had been part of the company since 2002, immediately took over as Managing Director



Karsten Moholt has been serving Oil and Gas industries many years.



COSL

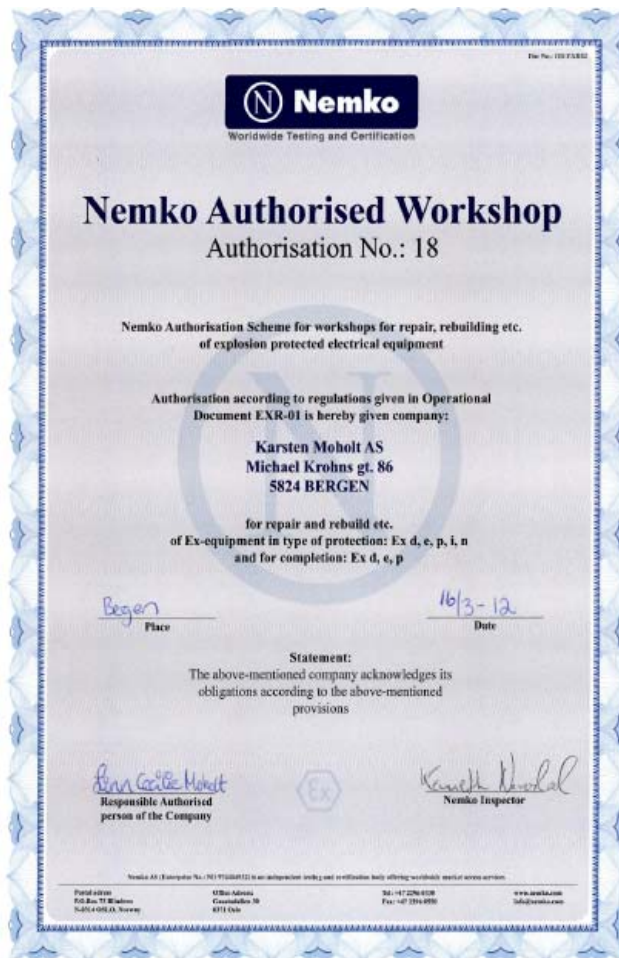


Seadrill

Ex competence and certification is critical



Karsten Moholt was Nemko and UL Authorized workshop and other before IECEx Service Facilities Scheme was introduced



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File E121976 Vol 1 Issued 01/19/1989
Revised 01/18/2000

FOLLOW-UP SERVICE PROCEDURE
(TYPE L)

MOTORS AND GENERATORS, REBUILT FOR USE IN
HAZARDOUS LOCATIONS
(PTKQ)

Manufacturer: KARSTEN MOHOLT A/S
(199460-001) MICHAEL KROHNS GT. 86
PO BOX 2458
SOLHEIMSVIKEN
5824 BERGEN NORWAY

Applicant: SAME AS MANUFACTURER
(199460-001)

Listee: SAME AS MANUFACTURER
(199460-001)

This Procedure authorizes the above Manufacturer to use the marking specified by Underwriters Laboratories Inc. only on products covered by this Procedure, in accordance with the applicable Follow-Up Service Agreement.

The prescribed Mark or Marking shall be used only at the above manufacturing location on such products which comply with this Procedure and any other applicable requirements.

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UNDERWRITERS LABORATORIES INC.
Robert H. Levine
Robert H. Levine
Sr. Vice President and
Chief U.S. Operations Officer

Before IECEx Service Facilities Scheme was introduced. The Problems

There were multiple
accreditations

To many different regulation &
requirement

Manufacture accreditation

User accreditation

Unclear to both end-user and repairer

Regulatory accreditation

Voluntary in some country

Mandatory in some country

Not recognized
internationally



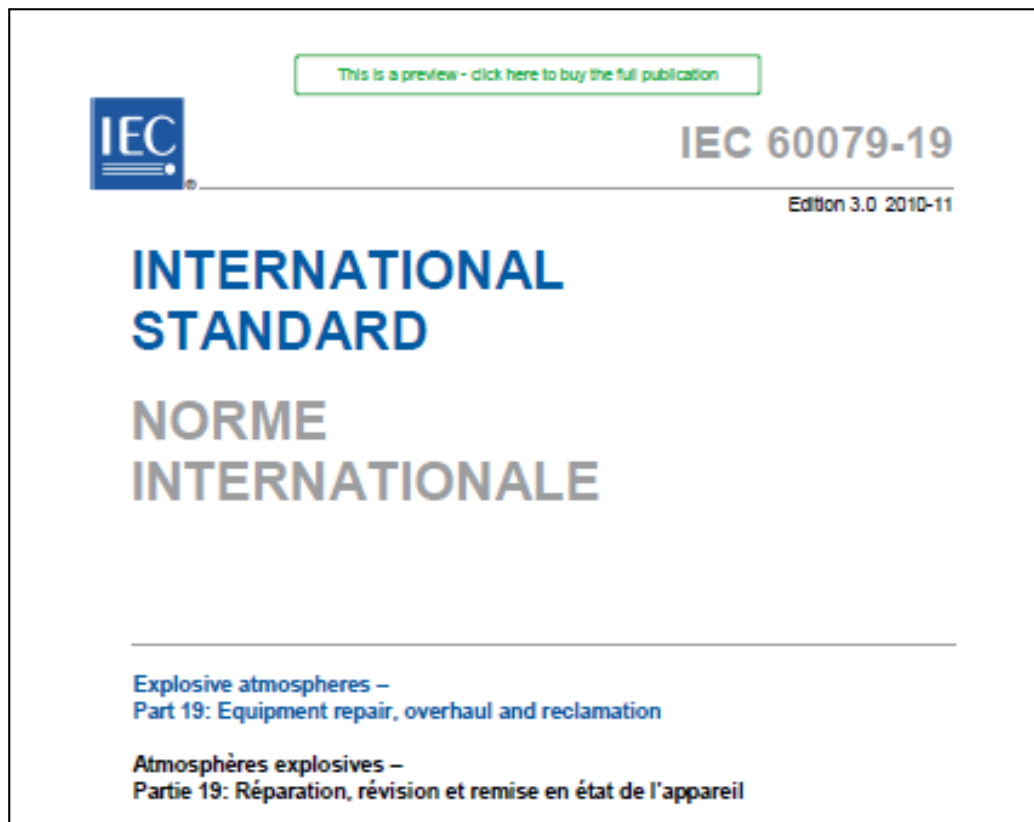
Ex repairer

Before IECEx Service Facilities Scheme was introduced



We need to have a Simple & transparent rule, which accepted both Nationally and Internationally

A wonderful tool for repair and overhaul of Ex equipment. IEC 60079-19 standard.



IEC 60079-19
published in 2006

Ex experts from many countries working together.



Example only. For complete list of countries involved see WWW.IEC.CH

List of Independent Bodies (ExCBs) Certified Service Facility Scheme

Country	Acronym
Australia	SIMTARS
Australia	TestSafe
Australia	TRA
Germany	DEKRA EXAM
Germany	PTB
Korea	KGS
Malaysia	SIRIM
Netherlands	DEKRA KEMA
Norway	Presafe
Slovenia	SIQ
United Kingdom	SGS BASEEFA
United Kingdom	SIRA
United States of America	UL

Approved IECEx Certification Bodies (ExCBs) Certified Service Facility Scheme



Karsten Moholt approved by NB.
DNV Nemko Presafe

Example on Client requirements on IECEX Service Certification and competence.

Authorisation/ Certificate

Please confirm that you are certified according to IECEx and ISO 9001.

Repair and Overhaul

Please describe ability to execute inspections/overhaul/repair of low and high voltage in accordance with industrial and Ex Motors and equipment.

Competence of personnel and Capacity

Please include a matrix over available personnel and their qualifications within each of the service areas in Repair, Testing etc. The Matrix shall include relevant formal and and real competence included certificate such as...

Exampel of Clients
requirement on IECEx

It is clear IECEx certification is crucial to

- Meet customer requirement
- Expand service internationally
- Demonstrate to our customer that we have been independently assessed as competent nationally and internationally.
- Will be a good basis for other certifications.



IECEX Service Facility process has two areas of assessment.

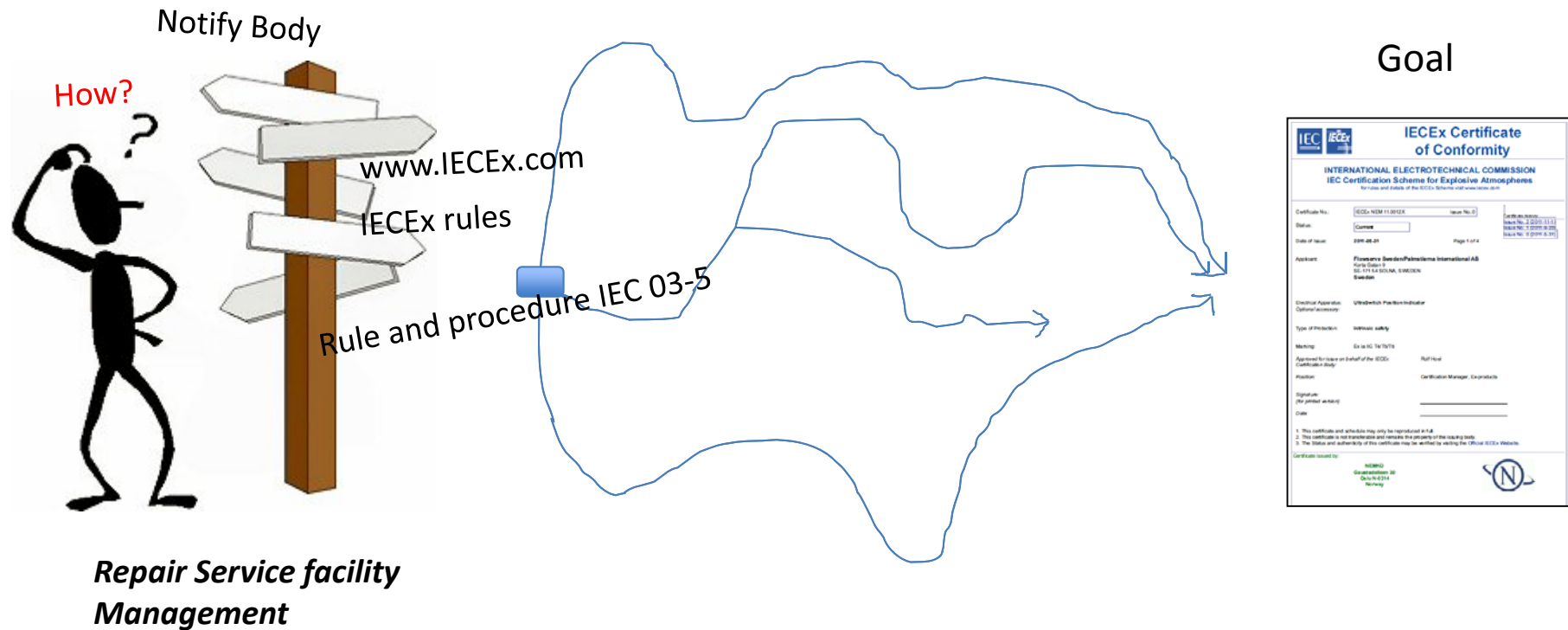
Service facility QMS
Complies with OD 014
(quality requirement)

1)

Facility complies
with IEC 60079-19 and
OD15(technical requirement)?

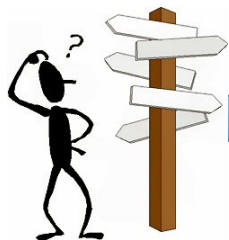
2)

How to become an IECEx certified service facility? Where to start?



IECEx process overview. Step by Step.

**Service facility QMS
Complies with OD 014**



**Facility complies
with IEC 60079-19
and
OD15?**

Clarity type of service, repair
and limitation

Type of product and protection

Calibrated Test equipment

Appoint an Ex responsible
person

Competence and training of
personnel .

T6 Personnel certified according to unit Ex 005

Make sure equipment
Calibrated

T8 Marking apparatus

Submit Application and
documentation to Notified Body

T On-site examination by NB

Achieve ISO 9001 cert

Understand Rule and procedure IEC 03-5

Purchase Standards: IEC 60079-19
and OD 314-5 and OD 015

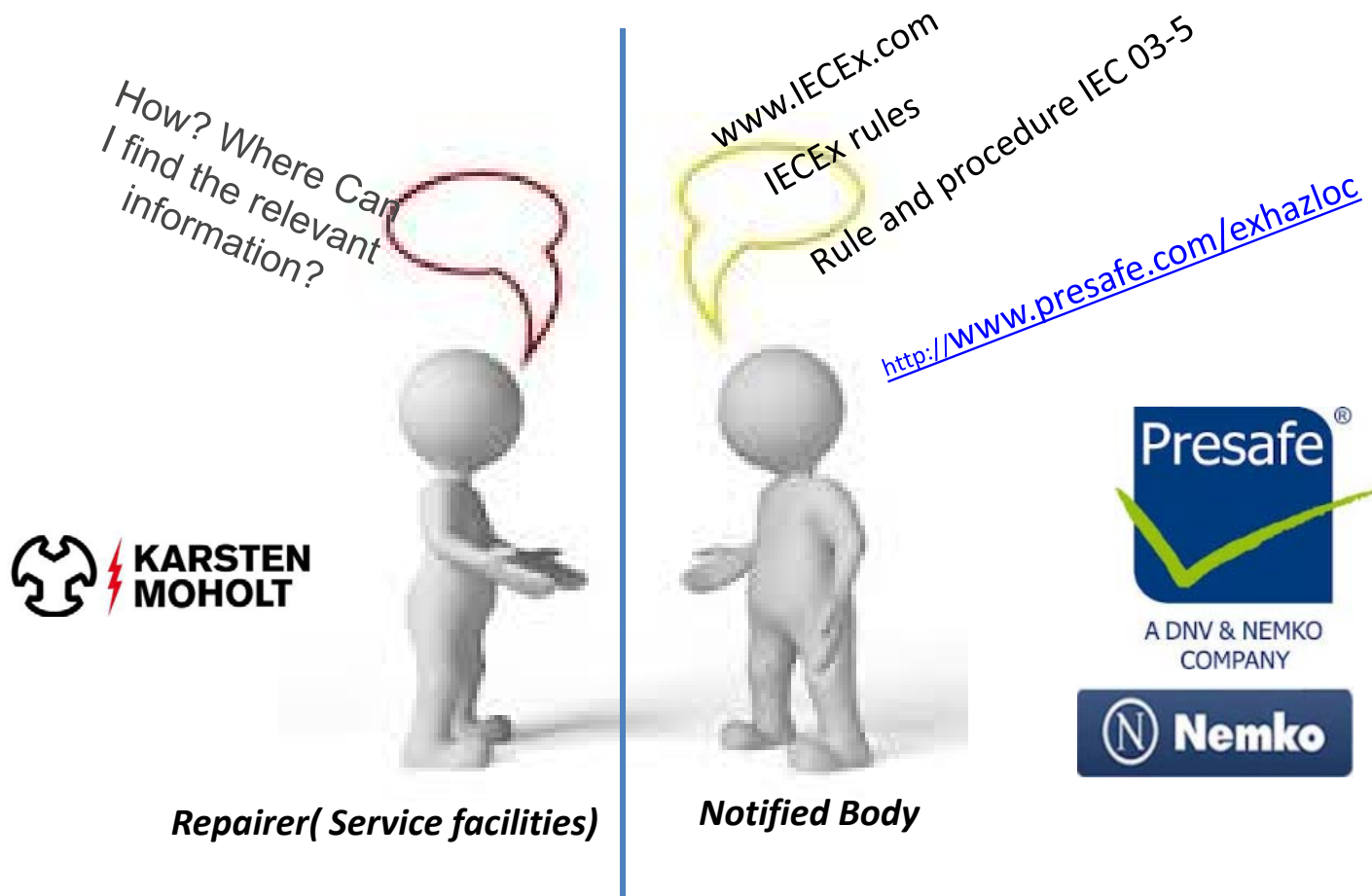
Download Operation Documents:
60079-serie and previous version

Prepare Procedures and process
documents.

Prepare Documentation and Report format



Step no 1/15: Have a good contact with Notified Body



Step no 2/15: Defined Scope of Service and competency



Facility?



Test equipment ?



Recovery process?

Step no 3/15: Identify your current resource

IECEX?

Ex ?

ISO 9001?



Step no 4/15: Defined Scope of Service and competency

- Motors?
- Switchgear?
- Transformer?
- Ex d, Ex e, Ex i, Ex p?
- Gas? Dust?

Step no 5/15: Increase Ex knowledge



TRAINOR 

<http://www.trainor.no/servlet/Klasseromskurs.store?f=classroom>

Increase Ex knowledge among all personell who directly involved in Ex activities

Training of personnel

- Ex basic
- Ex repair and Overhaul

Step no 6/15: Get them certified! IECEx Certificates of Personnel Competence Scheme

IECEx Certified Persons	
IECEx CoC Home > Personnel Competence Scheme	
Previous	
Search results for "karsten Moholt": (11 hits) <input type="radio"/> Strict	
Reference No.	
GB/SIR/PCAR14.0001/00	
GB/SIR/PCAR14.0003/00	
GB/SIR/PCAR14.0004/00	
GB/SIR/PCAR14.0005/00	
GB/SIR/PCAR14.0006/00	
GB/SIR/PCAR14.0007/00	
FR/INE/PCAR14.0001/00	
GB/SIR/PCAR14.0051/00	
GB/SIR/PCAR14.0097/00	
GB/SIR/PCAR14.0099/00	
GB/SIR/PCAR14.0003/01	

IECEx certified personnel involved in Ex activities.



Karsten Moholt IECEx certified personnel

Step no 7/15: Appoint a Ex responsible person

with the right competence according to Annex B in IEC 60079-19

Ex competence person



Find



24.04.2015

This personal will be assessed by the Notified Body

– 60 –

60079-19 © IEC:2010

Annex B (normative)

Knowledge, skills and competencies of “responsible persons” and “operatives”

B.1 Scope

This annex specifies the knowledge, skills and competencies of persons referred to in this standard.

B.2 Knowledge and skills

B.2.1 Responsible persons

“Responsible persons” who are responsible for the processes involved in the overhaul, repair and reclamation of specific types of explosion protection of explosion protected equipment, shall possess, at least, the following:

- a) general understanding of relevant electrical and mechanical engineering at the craftsperson level or above;
- b) practical understanding of explosion-protection principles and techniques;
- c) understanding and ability to read and assess engineering drawings;
- d) familiarity with measurement functions, including practical metrology skills, to measure known quantities;
- e) working knowledge and understanding of relevant standards in the explosion protection field;
- f) basic knowledge of quality assurance, including the principles of traceability of measurement and instrument calibration.

Step no 8/15: Understand Rule and Procedure IEC 03-5



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

Information Publications Members' Area Certificates & Licenses Meetings & Events

IECEX Rules

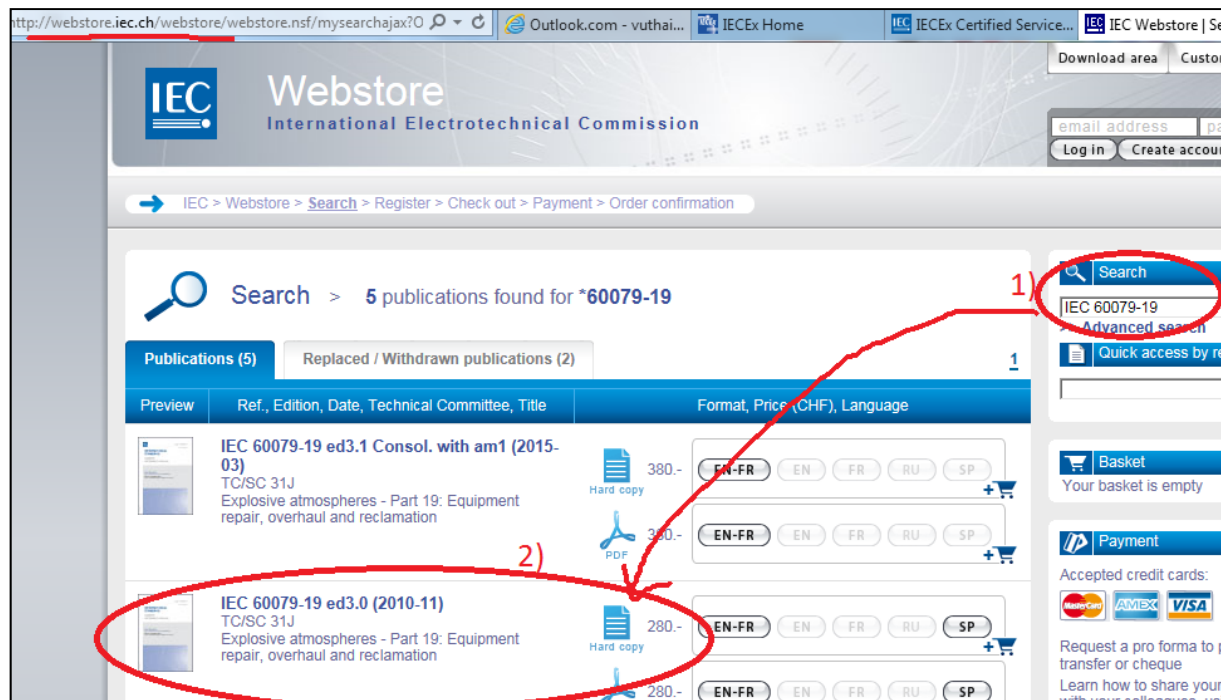
Publication Bulletin Rules Standards Guides Operational (OD) ExTAG Decisions Application Forms

IECEX Rules

Administration of the IECEx System is governed by the IECEx Rules

01	IEC System for Certification to Standards relating to Equipment Basic Rules (1MB)
02	IEC System for Certification to Standards relating to Equipment IECEx Certified Equipment Scheme covering equipment for use in explosive atmospheres (1MB)
IECEX 03-2	IECEX Certified Service Facilities Scheme – Part 2: Selection of Procedure (1 MB)
IECEX 03-3	IECEX Certified Service Facilities Scheme – Part 3: Ex installation
IECEX 03-4	IECEX Certified Service Facilities Scheme – Part 4: Ex inspection
IECEX 03-5	IECEX Certified Service Facilities Scheme – Part 5: Repair, maintenance and modification Procedure (1 MB)

Step no 9/15: Purchase Standards: IEC 60079-19 and product standards



http://webstore.iec.ch/webstore/webstore.nsf/mysearchajax?O Outlook.com - vuthai... IECEx Home IECEx Certified Service... IEC Webstore | Search



Download area Custom

email address pa
Log in Create account

IEC > Webstore > Search > Register > Check out > Payment > Order confirmation

Search > 5 publications found for *60079-19

Publications (5) Replaced / Withdrawn publications (2)

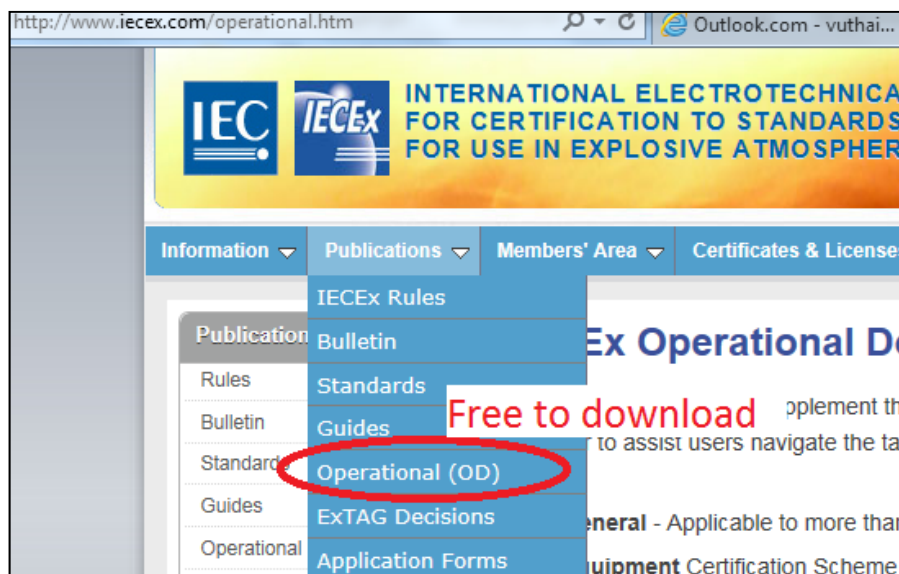
Preview	Ref., Edition, Date, Technical Committee, Title	Format, Price (CHF), Language
	IEC 60079-19 ed3.1 Consol. with am1 (2015-03) TC/SC 31J Explosive atmospheres - Part 19: Equipment repair, overhaul and reclamation	Hard copy 380.- EN-FR EN FR RU SP +
	IEC 60079-19 ed3.0 (2010-11) TC/SC 31J Explosive atmospheres - Part 19: Equipment repair, overhaul and reclamation	Hard copy 280.- EN-FR EN FR RU SP +

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Payment
Accepted credit cards:
MasterCard AMEX VISA
Request a pro forma to pay by transfer or cheque
Learn how to share your experience with your colleagues



Step no 10/15: Download Operation Documents: and OD 314-5



Conformity Mark Licensing System				
OD 422	140205	Mark	N	Rules and Procedures for the granting of Licenses to issue and use the IECEx Conformity Mark (This document has been issued using the new agreed numbering system. It replaces OD022)
OD 023		Mark	N	Terms and Conditions for use of the IECEx Conformity Mark
OD 011-4	150119	Mark	N	Guidance on Use of the IECEx Internet based "On-Line" Certificate of Conformity System Part 4: Creating IECEx Conformity Mark Licenses
Certified Service Facility Scheme				
OD 316-5	130815	Service	N	IECEx Certified Service Facilities Scheme – Part 5: Repair, overhaul and reclamation of Ex equipment Assessment procedures for IECEx acceptance of Candidate Certification Bodies (ExCBs) for the purpose of issuing IECEx Certificates to Ex Service Facilities involved in the repair, overhaul and reclamation of Ex equipment (1 MB)
OD 316-4	130819	Service	N	IECEx Certified Service Facilities Scheme – Part 4: Ex inspection and maintenance Assessment procedures for IECEx acceptance of Candidate Certification Bodies (ExCBs) for the purpose of issuing IECEx Certificates to Ex Service Facilities providing Ex installations related services (1 MB)
OD 314-5	140814	Service	N	IECEx Certified Service Facilities Scheme – Part 5: Repair, overhaul and reclamation of Ex equipment Quality Management System requirements for IECEx Service Facilities involved in the repair, overhaul and reclamation of Ex equipment IECEx

Step no 11/15: Quality Management System Additional requirement

1)



+



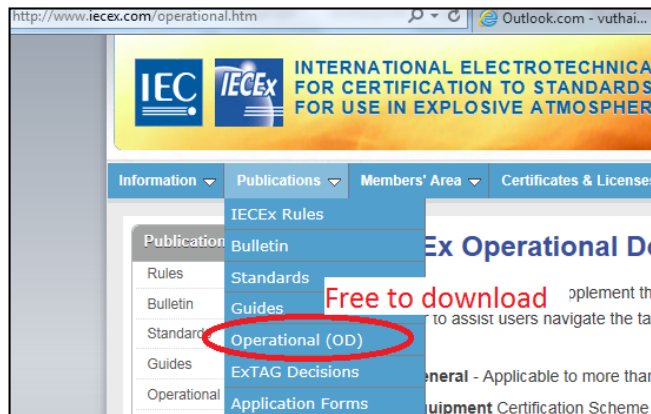
Additional requirement
Ex related. OD 314-5

Quality Management System
ISO 9001

The approval process will be much easier if
ISO 9001 is already in place

Step no: 12/15 Download Operation Documents: OD 015 (Technical requirement)

1)

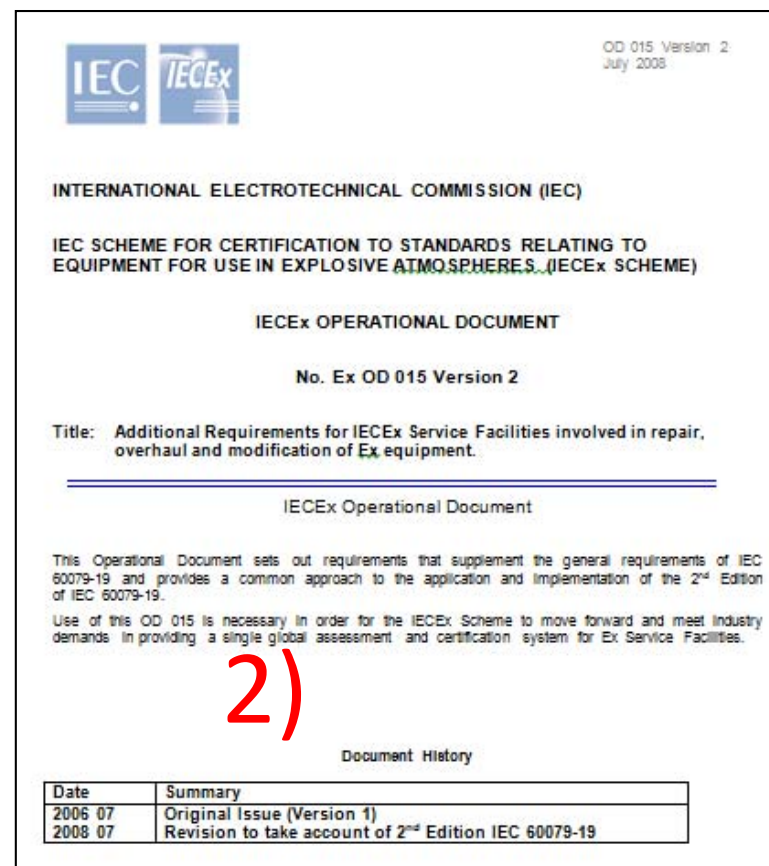


				Part 4: Creating IECEx Conformity Mark Licenses
				1)
				Certified Service Facility Scheme
OD 316- 5	130819	Service	N	IECEX Certified Service Facilities Scheme – Part 5: Repair, overhaul and reclamation of Ex equipment Assessment procedures for IECEx acceptance of Candidate Certification Bodies (ExCBs) for the purpose of issuing IECEx Certificates to Service Facilities involved in the repair, overhaul and reclamation of Ex equipment (1 MB)
OD 316-4	130819	Service	N	IECEX Certified Service Facilities Scheme – Part 4: Ex inspection and maintenance Assessment procedures for acceptance of Candidate Certification Bodies (ExCBs) for the purpose of issuing IECEx Certificates to Ex Service Facilities providing Ex installations related services (1 MB)
OD 015		Service	N	<u>Additional Requirements for IECEx Service Facilities involved in repair, overhaul and modification of Ex equipment.</u>

Step no: 13/15, additional requirement to IEC 60079-19



+



Very Important!



Are you confidence?

**Are you ready for initial Assessment by
a Notified Body ?**

Step no: 14/15 Ready for initial Assessment by a Notified Body



1)

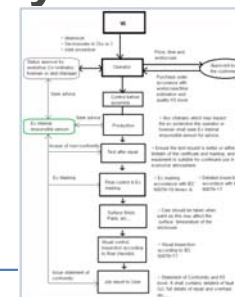
Facility complies with IEC 60079-19 and OD15?

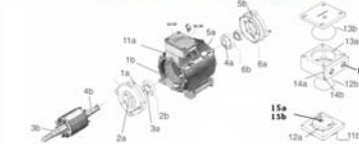


Repairer(Service facilities)

2)

Service facility QMS Complies with OD 014



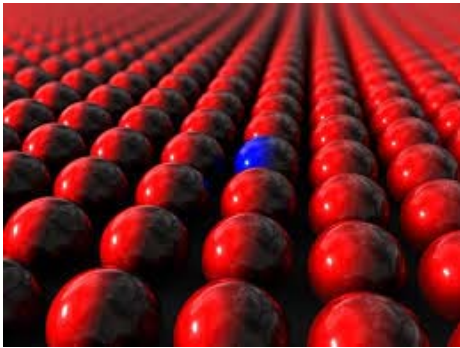
Dato	Utført av												
Flammespaltekontroll for EX d motorer													
													
<input type="checkbox"/> Flammespalter som ikke er planlagt å åpne er undersøkt med tanke på korrosjon, slitasje eller skader, og vurdert til å være i orden.													
Godkjent	Må rep												
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Instrument ID	God	Målt av	Neutro kalibrering	Rep	Utført av								
Flammespalte 1a	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>								



A DNV & NEMKO COMPANY

Notified Body

Step no: 15/15 Final Step Incase of Non-conformances



Incase of Non-Conformity



When all outstanding non-conformances
resolved to the satisfaction of the NB.
Report and certificate issued.

***Congratulation! You have reached you goal.
Karsten Moholt one of the first in the world gains the IECEx Service Certification.***

  IECEx CoC Certified Service Facility	
INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres <small>for rules and details of the IECEx Scheme visit www.iecex.com</small>	
Certificate No.:	IECEx NEM S0001 issue No.:0 Certificate history: _____
Status:	Current Date of Issue: 2008-01-28
Applicant:	Karsten Moholt AS Michael Krohns gt. 86 N-5824 BERGEN Norway
Type of Service:	Repair and Overhaul according to IEC 60079-19
Type of Protection:	Dusts to IEC 61241-1 Flameproof Enclosure "d" Increased Safety "e" Other Type of Protection "n"
Scope of Service:	Repair and Overhaul of Rotating Machines and Enclosures (Ex d, e, p, n, tD, pD)
Locations covered by this Certificate:	Karsten Moholt AS Michael Krohns gt. 86 N-5824 BERGEN Norway
Facility Audit Report:	NOMNEM/FAR08 0001/00

24.04.2015

Now we are ready to meet our client requirements

Authorisation/ Certificate

Please confirm that you are certified according to IECEx and ISO 9001.

YES!

Repair and Overhaul

Please describe ability to execute inspections/overhaul/repair of low and high voltage in accordance with industrial and Ex Motors and equipment.

YES!

Competence of personnel and Capacity

Please include a matrix over available personnel and their qualifications within each of the service areas in Repair, Testing etc. The Matrix shall include relevant formal and and real competence included certificate such as...

YES!

12 years agreement with Statoil



Kontraktssignering hos Statoil på Sandsli. Fra venstre Irene Velure, Statoil, Anne Marie Valvatne, Statoil, Linn Cecilie Moholt, Karsten Moholt AS, Trond Torvund, Statoil, Bjarte Endestad, Statoil. Foto: Karsten Moholt

Karsten Moholt får milliardavtale med Statoil

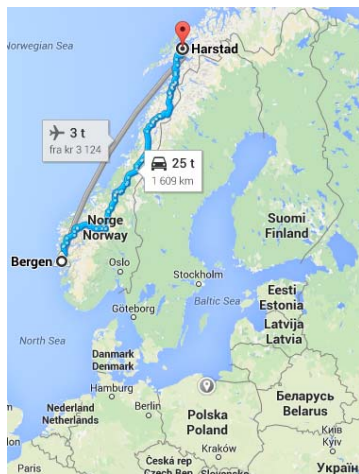
Får ansvar for roterende utstyr på alle Statoil-installasjonene på norsk sokkel opp til

Karsten Moholt AS 2015 wins 1 billion NOK agreement with Statoil ASA for service and repair of rotating electrical equipment



Karsten Moholt AS expands its operations in the north of Norway by buying a local company called Teknor AS

Bergen to Harstad



Teknor



Aurora. Beautiful Harstad North of Norway



24.04.2015

Teknor AS

Karsten Moholt Company IECEx approved

		IECEx CoC Certified Service Facility	
INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres <small>for rules and details of the IECEx Scheme visit www.iecex.com</small>			
Certificate No.:	IECEx NEM S0003	issue No.:0	Certificate history:.....
Status:	Current	Date of Issue: 2015-03-26	
Applicant:	Teknor - A Karsten Moholt Company Gamtoftveien 8 N-9415 Harstad Norway Norway		
Type of Service:	Repair and Overhaul according to IEC 60079-19		
Type of Protection:	Flameproof Enclosure "d" Increased Safety "e" Other		
Scope of Service:	Repair and Overhaul of Rotating Machines; Ex d, Ex e, Ex p. (rewinding)		
Locations covered by this Certificate:	Teknor Gamtoftveien 8 N-9415 Harstad Norway		
Facility Audit Report:	NO/NEM/FAR15.0001/00		
<small>This certificate is issued as verification that the Service Facility and associated locations were assessed and found to comply with the</small>			

IECEx certified 2015

24.04.2015

Karsten Moholt AS and IECEx

[IECEx CoC Home](#) > [Certified Service Facility Scheme](#) > [Listing](#)

View by **Applicant Location** : (All)

[Previous Page](#) | [Next Page](#) | [First Page](#) | [Last Page](#) | [Expand](#) | [Collapse](#)

(Selection: [All](#) | [Australia](#) | [Belgium](#) | [Denmark](#) | [Germany](#) | [Ireland](#) | [Korea, Republic Of](#) | [Malaysia](#) | [Norway](#) | [Qatar](#) | [Singapore](#) | [Slovenia](#) | [Switzerland](#) | [Thailand](#) | [The Netherlands](#) | [United Arab Emirates](#) | [United Kingdom](#) | [United States Of America](#))

Country / Location		Name	Certificate No
<input checked="" type="checkbox"/> Australia	12		
<input checked="" type="checkbox"/> Belgium	1		
<input checked="" type="checkbox"/> Denmark	3		
<input checked="" type="checkbox"/> Germany	5		
<input checked="" type="checkbox"/> Ireland	1		
<input checked="" type="checkbox"/> Korea, Republic Of	4		
<input checked="" type="checkbox"/> Malaysia	14		
<input checked="" type="checkbox"/> Norway	2		
	1	<input checked="" type="checkbox"/> Karsten Moholt AS	
	1	<input checked="" type="checkbox"/> Teknor - A Karsten Moholt Company	
<input checked="" type="checkbox"/> Qatar	2		
<input checked="" type="checkbox"/> Singapore	14		
<input checked="" type="checkbox"/> Slovenia	3		
<input checked="" type="checkbox"/> Switzerland	4		
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<input checked="" type="checkbox"/> United Kingdom	27		
<input checked="" type="checkbox"/> United States Of America	1		
	166		

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- Karsten Moholt is the only IECEx approved service facility for repair and overhaul of IECEx motors, generators and equipment.

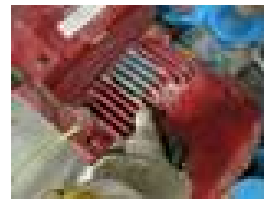
Karsten Moholt AS next plan for expansion of our IECEx certification scope

Thanks to our Nemko and IECEx certification and our competence personnel we have been recognized as an Ex competence company among larger clients

**COSL** **HYUNDAI**
HEAVY INDUSTRIES CO., LTD.

**Huyndai Heavy Industries.
Goliat FPSO project**

Ex inspection



Example of inspected of equipment in zone 2



Ex Motors.
(Lost Marking)



Ex Speaker
(Bad maintenance)

Example of inspected of equipment in zone 2



Uncertified Equipment



Ex d switchbox
(Unreadable
Marking)



Ex n Floodlight
(Damage enclosure)

Reality

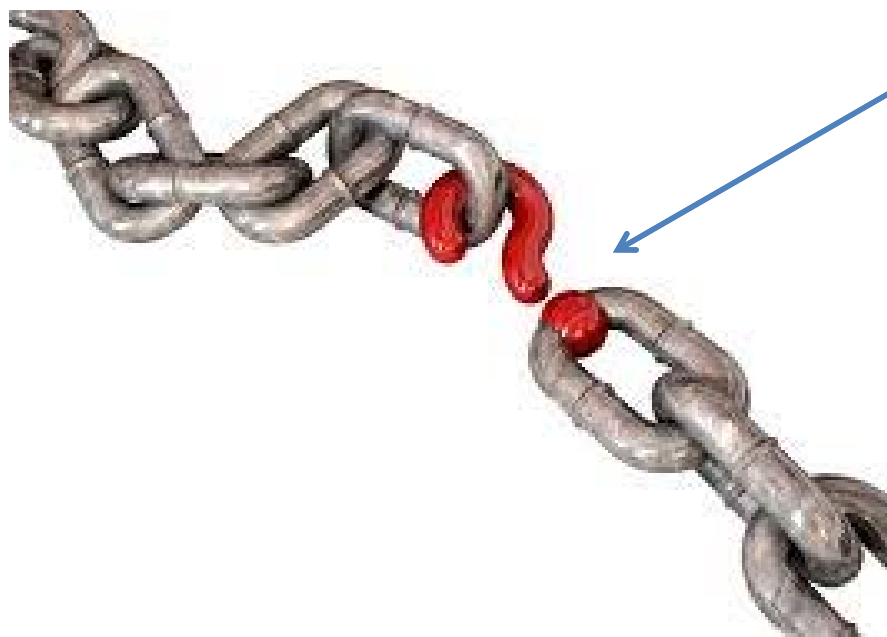
- Currently any company can claim that they can carry out Ex inspection.
- Very few realise the depth of knowledge required.
- Lack of competence of the people who are involved in the inspection activity.
- We need to have a same quality system as IECEx service facilities scheme for inspection and installation.

Good news!

Certified service facility scheme for Ex inspection and installation already established.

Certified Service Facility Scheme				
OD 316-5	130819	Service	N	IECEX Certified Service Facilities Scheme – Part 5: Repair, overhaul and reclamation of Ex equipment Assessment procedures for IECEX acceptance of Candidate Certification Bodies (ExCBs) for the purpose of issuing IECEX Certificates to Ex Service Facilities involved in the repair, overhaul and reclamation of Ex equipment (1 MB)
OD 316-4	130819	Service	N	IECEX Certified Service Facilities Scheme – Part 4: Ex inspection and maintenance Assessment procedures for IECEX acceptance of Candidate Certification Bodies (ExCBs) for the purpose of issuing IECEX Certificates to Ex Service Facilities providing Ex installations related services (1 MB)
OD 316-3	130819	Service	N	IECEX Certified Service Facilities Scheme – Part 3: Ex installation and initial inspection Assessment procedures for IECEX acceptance of Candidate Certification Bodies (ExCBs) for the purpose of issuing IECEX Certificates to Ex Service Facilities providing Ex installation and initial inspection service IECEX (1 MB)
OD 316-2	130819	Service	N	IECEX Certified Service Facilities Scheme – Part 2: Selection of Ex equipment and design of Ex installations Assessment procedures for IECEX acceptance of Candidate Certification Bodies (ExCBs) for the purpose of issuing IECEX Certificates to Ex

**Current there is no
Approved IECEx Certification Bodies (ExCBs) Certified Service
Facility for Inspection and installation!**



Approved Notified Body for
certified service facility for
inspection and installation?

**We believe IECEx System is the future and it will be a great benefit
for safety and all parties involved.**

End-user, Service facility and Ex manufacturer.

Thank you for attention

Questions ?



2015 IECEx International Conference :
Gdańsk, Poland,
22 - 23 April 2015

By Thaison Vu, Ex Certification Manager, Karsten Moholt.

Websites and Puplication

Greate homepage with a lot of useful documents and information

www.IECEx.com

Greate article on IECEx CERTIFIED SERVICE FACILITY SCHEME by Johns Allen.

http://www.iecex.com/dubai/speakers/Day%20B_1100-1200_John%20Allan%20Paper_IECEx%20Paper.pdf

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<http://webstore.iec.ch> or www.standard.no

www.KarstenMoholt.com