

International Electrotechnical Commission System
for Certification to Standards Relating to Equipment
for Use in Explosive Atmospheres (IECEX System)



IECEX Certified Equipment Scheme

IECEX 2018
International Conference
Split, Croatia
23rd April 2018

INTRODUCING

- Damir Korunić
- Director General
- Ex-Agencija



www.ex-agencija.hr

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IECEX Certified Equipment Scheme

- Process to gain IECEX Certificate
- Value in holding an IECEX Certificate

Introduction

IECEX International Certification System

IECEX Certified Equipment Scheme

IECEX Certified Service Facilities
Scheme

IECEX Conformity Mark Licensing
System

IECEX Certification of Personnel
Competencies (CoPC)

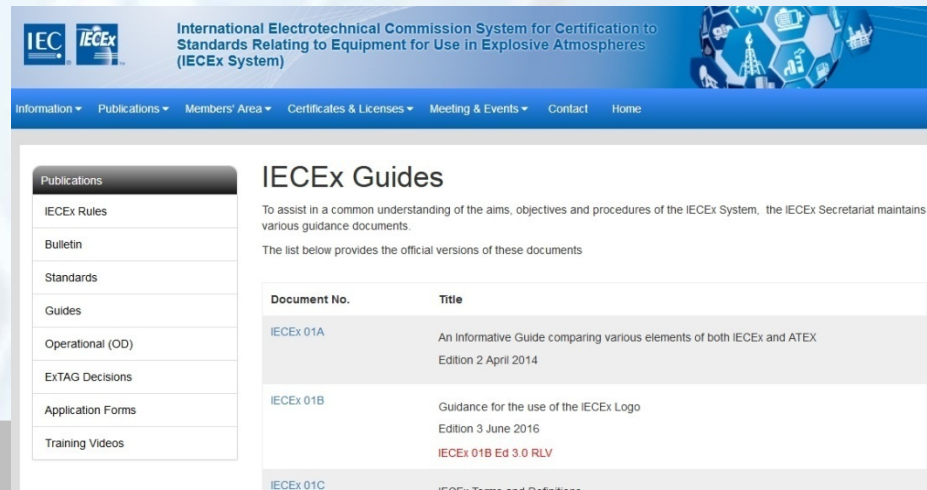
IECEX vision

- Worldwide acceptance
- One standard
- Same rules
- One test
- One certificate
- One Mark

Introduction

IECEX Certified Equipment Scheme

- Certification according to standards (IEC or ISO)
 - covered electrical and non-electrical equipment, systems and component
 - list of standards available at www.iecex.com/publications/standards/
- Process of certification according to IECEx rules
 - rules and guides and supported documents available at www.iecex.com/publications/



The screenshot shows the IECEx website interface. At the top, there is a navigation bar with the IEC and IECEx logos, the full name of the organization, and a list of menu items: Information, Publications, Members' Area, Certificates & Licenses, Meeting & Events, Contact, and Home. Below the navigation bar, there is a sidebar with a 'Publications' menu containing links to IECEx Rules, Bulletin, Standards, Guides, Operational (OD), ExTAG Decisions, Application Forms, and Training Videos. The main content area is titled 'IECEX Guides' and contains a paragraph explaining the purpose of the guides and a table listing the official versions of these documents.

Document No.	Title
IECEX 01A	An Informative Guide comparing various elements of both IECEx and ATEX Edition 2 April 2014
IECEX 01B	Guidance for the use of the IECEx Logo Edition 3 June 2016 IECEX 01B Ed 3.0 RLV
IECEX 01C	IECEX Terms and Definitions

Introduction

IECEX Certified Equipment Scheme

- All certificates available “On-line”
- All ExCBs (IECEX Certification Body) and ExTLs (IECEX Test Laboratory) under peer assessment process
- Same format reports and certificates that use all ExCBs and ExTLs

International Electrotechnical Commission System for Certification to Standards Relating to Equipment for Use in Explosive Atmospheres (IECEX System)

For ExCBs only Log in

CERTIFIED EQUIPMENT CONFORMITY MARK LICENSES CERTIFIED SERVICE FACILITIES CERTIFIED PERSONS TOOLS

Information
IECEX Certificates are issued by IECEX Approved Certification Bodies using the IECEX On-Line Certificate System.
The IECEX Certificate that appears on this public view IECEX website is an image of the official on-line version and a signature is not required to validate it.
A printed or downloaded PDF copy of an On-line IECEX Certificate(s) must be regarded as an "Uncontrolled Copy" of the on-line official version.
Click here for a link to the INSTRUCTIONS FOR USE.
For any questions, please contact Mr. Chris Agius, IECEX Secretary.

Available on the App Store
ANDROID APP ON Google play

IECEX documents Certificates Issued year - All - Status - All - Free text

ExCBs EXA Certificate/EXTR/QAR number Standard

Applicant/ Manufacturer - All - Name

For Ex Certificates only Equipment Type of protection

Reset Search

Total Certificates found: 78

Previous 1 | 2 | 3 | 4 Next

Certificate no.	Date	ExCB	Location	Equipment	Applicant	Standards	Files
IECEX EXA 13.0003X Issue 1	2018-03-01	EXA	Germany	Input Module "LB1x09" for Remote I/O-System "LB"	Pepperl + Fuchs GmbH	IEC 60079-0 (Ed.6.0), IEC 60079-11 (Ed.6.0), IEC 60079-15 (Ed.4)	

Introduction

IECEX Certified Equipment Scheme

- **There are two different “types” of IECEx Certificate**
 - IECEx Certificate of Conformity (CoC)
 - can be issued for type of product (equipment, system and component) IECEx Certificate of Conformity (CoC) cover “future” production runs
 - IECEx Unit Verification Certificate
 - can be issued for a defined number of items under a single production run IECEx Unit Verification Certificate does not cover “future” production runs

Introduction

IECEX Certified Equipment Scheme

IECEX Certificate based on the following:

- IECEx Test Report (ExTR)
 - demonstrating that the examined product type (exact product) is in conformity with specified Standards

- IECEx Quality Assessment Report (QAR)
 - presents the results of an on-site assessment of the quality management system of a manufacturer, manufacturing location or production site by an ExCB

QAR is not applicable for IECEx Unit Verification Certificate

Process to gain IECEx Certificate

- Who can issue IECEx Certificate (CoC)?
- Where can I find IECEx Certification Body (ExCB)?

International Electrotechnical Commission System for Certification to Standards Relating to Equipment for Use in Explosive Atmospheres (IECEX System)

Information ▾ Publications ▾ Members' Area ▾ Certificates & Licenses ▾ Meeting & Events ▾ Contact Home

Information

- About IECEx
- IECEX Logo Guidance
- News Releases

Approved IECEx Certification Bodies (ExCBs) Certified Equipment Scheme

The following organisations have successfully completed the IECEx assessment process and are approved to operate within the IECEx Certified Equipment Scheme and to issue IECEx Test Reports (ExTRs), IECEx Quality Assessment Reports (QARs) and the Online Certificate of Conformity.

Notes:

- for IECEx bodies approved to operate under the IECEx Certified Facility Scheme (Ex Repair) [click here](#)
- for IECEx bodies approved to operate under the IECEx Scheme for Certification of Personnel Competencies (CoPC) [click here](#).
- for IECEx bodies approved to operate under the IECEx Conformity Mark licensing System [click here](#)

Country	Identifier	Country:	Name:	Identifier:	Logo:	Contact:	Postal Address:
AUSTRALIA	TestSafe						
AUSTRALIA	ExTC						
AUSTRALIA	MSTC						
AUSTRALIA	SIMTARS						
BRAZIL	NCC						
BRAZIL	UL do Brasil						
CANADA	Labtest						
CANADA	QPS						
CANADA	CSA						
CROATIA	EXA						
CZECH REPUBLIC	FTZU						
DENMARK	UL Dampk						

ExCBs

- ▶ Equipment
- ▶ Service Facilities
- ▶ Certified Persons
- ▶ Conformity Mark

Countries

Executive

www.iecex.com/information/excbs/

Process to gain IECEx Certificate

- How can an applicant start?
- What should an applicant do?

Applicant/manufacturee needs to:

- Choose an ExCB
- Prepare application documents including technical drawings, instruction manual (OD 017)
- Complete and submit application form to choosed ExCB



IECEX OD 017

Edition 5

IECEX Operational Document

IEC System for Certification to Standards relating to
Equipment for use in Explosive Atmospheres

Operational Document - Drawing and documentation
Guidance for IEC Ex Certification – for use by
Manufacturers and ExTLS

Process to gain IECEx Certificate

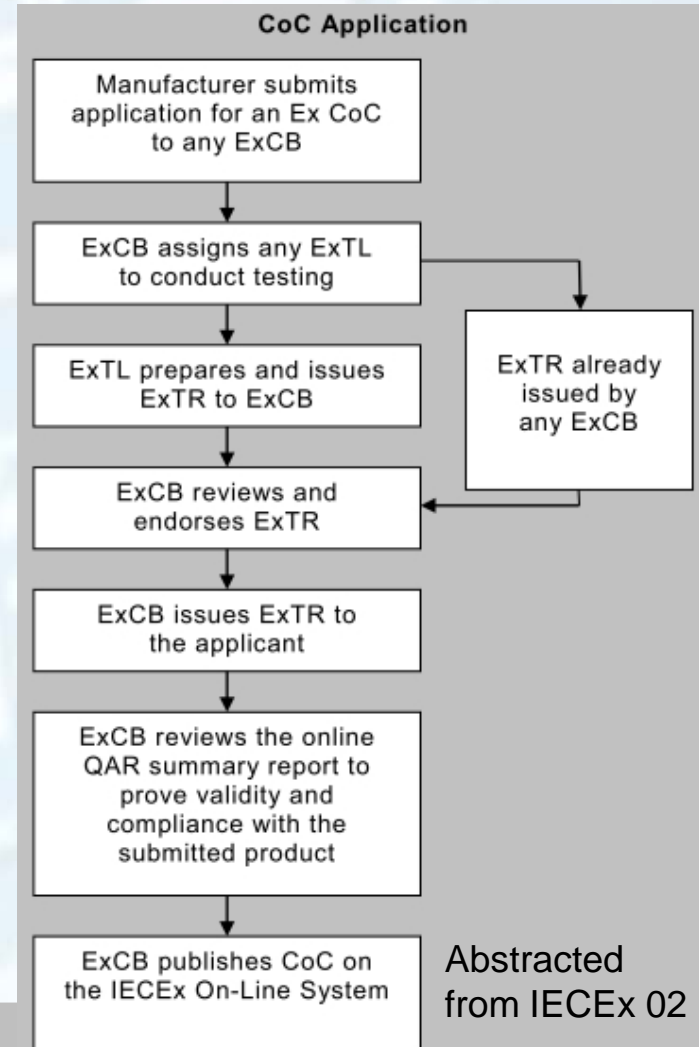
- **What should an applicant do?**

The following information will generally be required by the an ExCB :

- Letter requesting IECEx Certificate of Conformity or Ex Test Report (ExTR)
- Exact details of the product and its manufacturing location(s)
- Whether the manufacturer has an established quality management system
- List of design standards

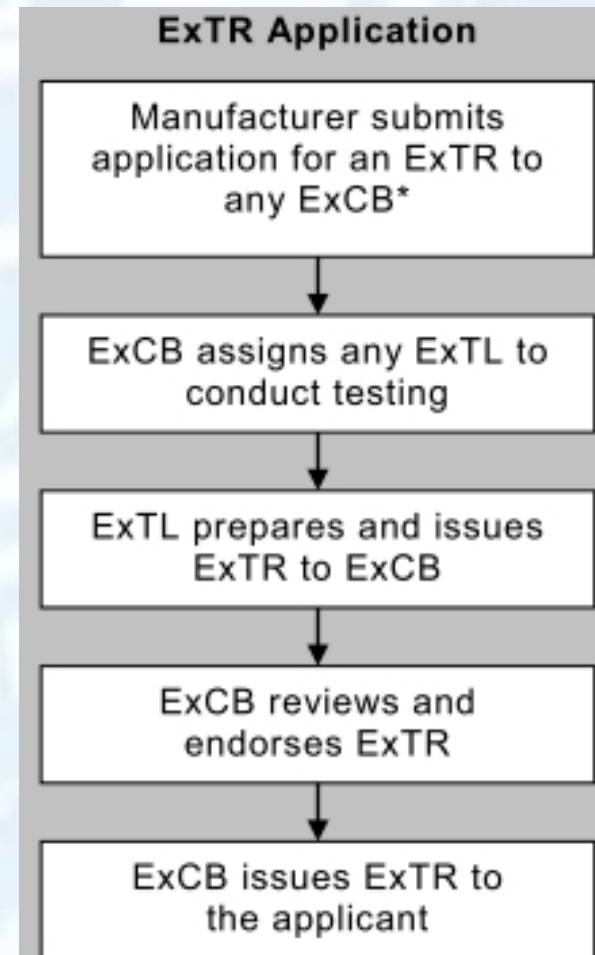
Process to gain IECEx Certificate of Conformity (CoC)

- What should ExCB do?
 - Review the request
 - Review documentation
 - Prepare and send quotation for certification



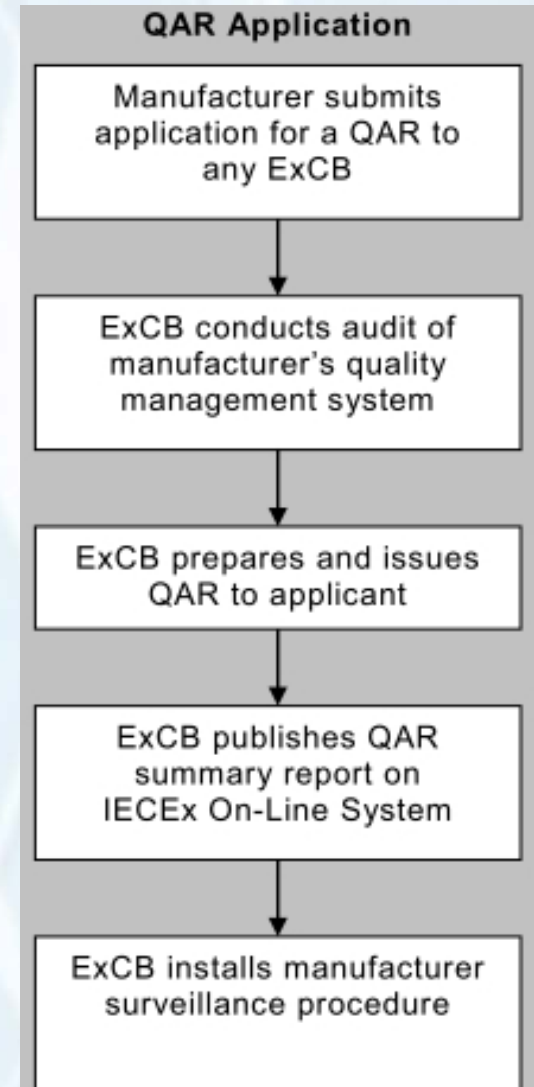
Process to gain IECEx Test Report (ExTR)

- ExTR is prepared by ExTL
- ExTR must be endorsed by ExCB

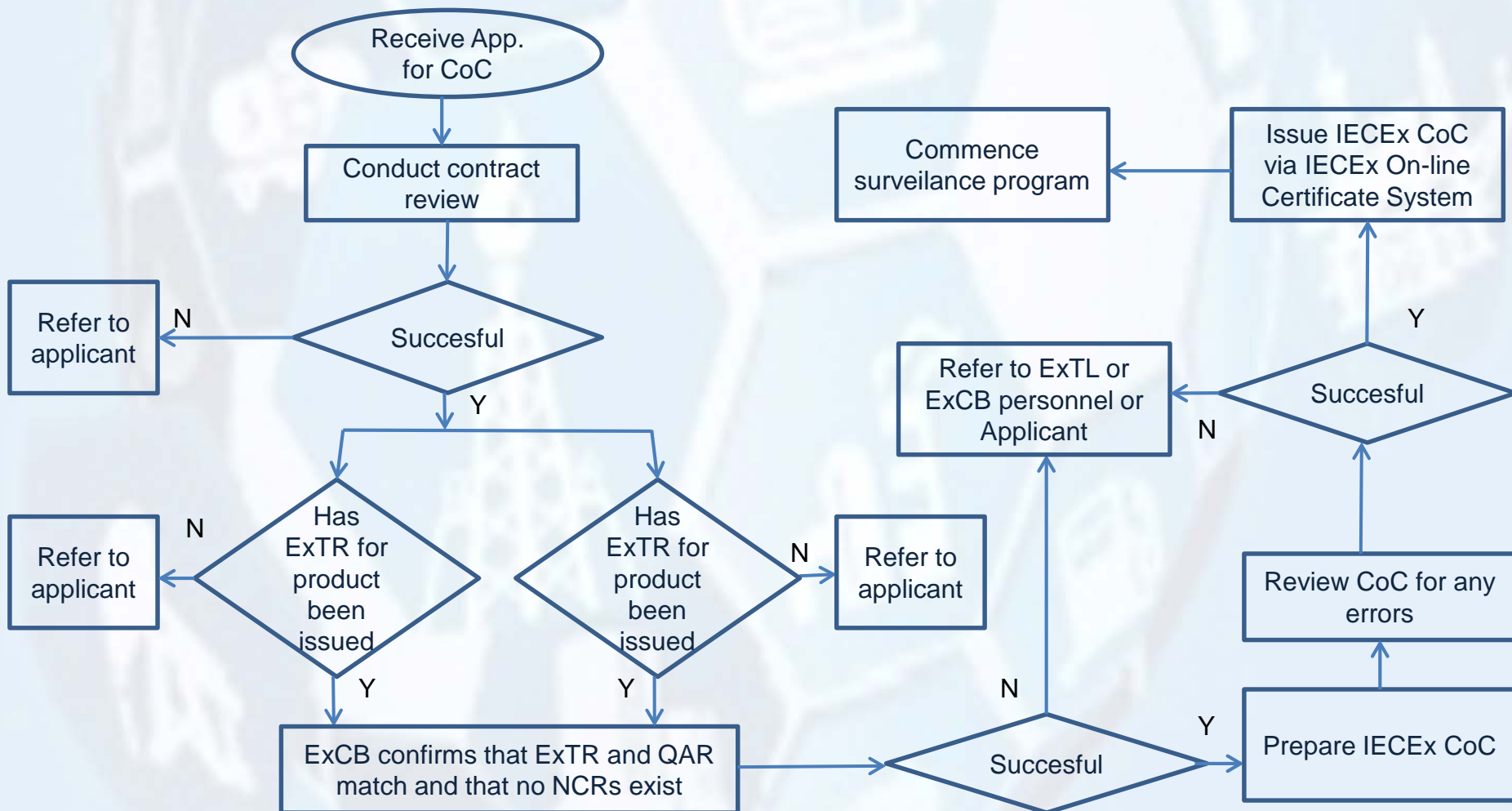


Process to gain QAR

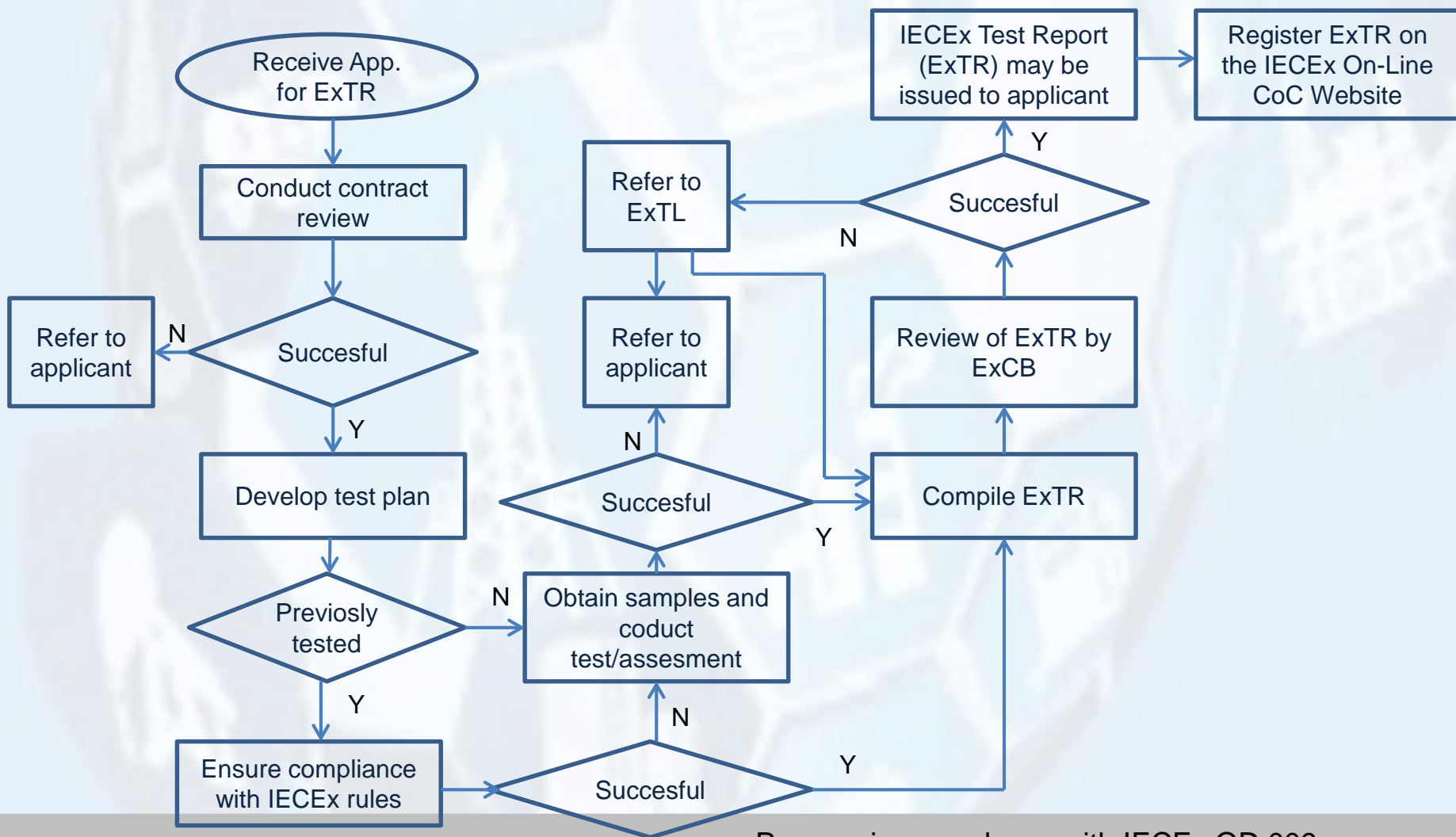
- Manufacturer's quality system must comply with ISO 9001
- It is not a requirement that the manufacturer has a certified ISO 9001 Quality system
- Manufacturer's quality system must comply with ISO / IEC 80079-34
- IECEx OD 208



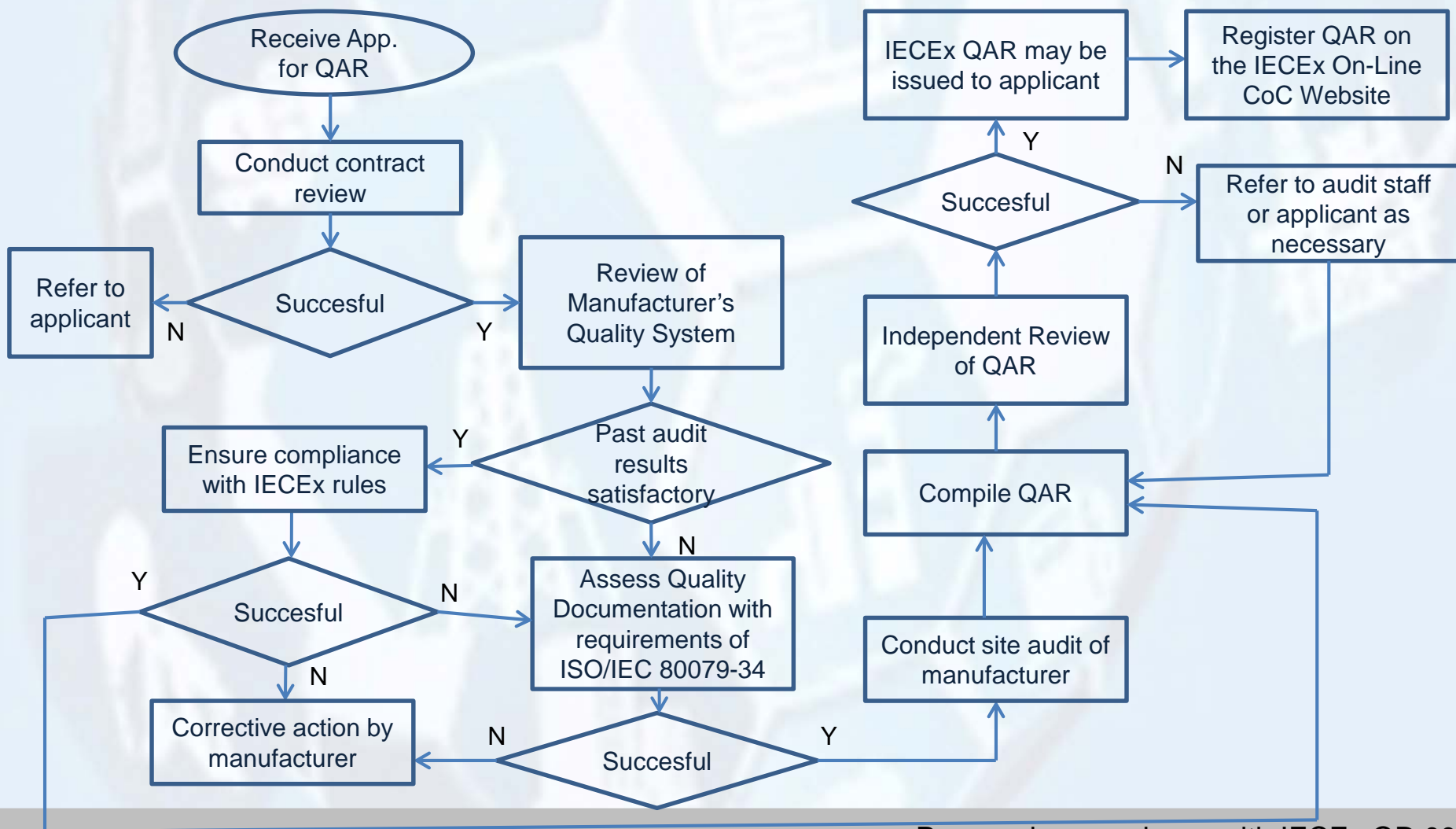
Process for issuing IECEX Certificate of Conformity



Process for issuing IECEX Test Report



Process for issuing IECEX QAR



What is the result of these processes?

Three documents are issued:

- IECEX Test Report (ExTR)
 - IECEX Quality Assessment Report (QAR)
 - IECEX Certificate of Conformity (CoC)
-
- ExTR and QAR are issued to applicant and registered on IECEX On-line website
 - IECEX Certificate of Conformity (CoC) is issued via IECEX On-line Certificate System (only CoC with status “Current” is valid)

IECEx Test Report (ExTR) - example



ExTR Reference Number: HR/EXA/ExTRgg.xxxx/yy
Assesment report Number: EXA ggCRxxxx



IECEx TEST REPORT COVER

ExTR Reference Number	HR/EXA/ExTRgg.xxxx/yy
ExTR Free Reference Number.....	PB.gg.Tx.nnnn
Compiled by + signature (ExTL).....	(enter typed name here) (enter signature here)
Reviewed by + signature (ExTL).....	(enter typed name here) (enter signature here)
Approved by + signature (ExCB).....	(enter typed name here) (enter signature here)
Date of issue.....	
Ex Testing Laboratory (ExTL)	Ex-Agencija
Address	Industrijska 25; 10431 Sveta Nedelja - Croatia
Ex Certification Body (ExCB)	Ex-Agencija
Address	Industrijska 25; 10431 Sveta Nedelja - Croatia
Applicant's name	Manufacturer xxx
Address	Xxx, zzzz.
Standards associated with this ExTR package	IEC 60079-0:2011, 6 th edition ; IEC 60079-1:2007, 6 th edition; IEC 60079-7:2006, 4 th edition; IEC 60079-31:2008, 1 st edition
Clauses considered.....	(All clauses considered)
Related Amendments, Corrigenda or ISHs.....	IEC 60079-0:2011, /ISH1:2013; /ISH2:2014/ /COR1:2012/ COR2:2013
Test item description	Three-phase and single phase motors, brake motors supplied by mains or inverter
Model/type reference.....	XXX
Code (e.g. Ex _ II_ T_)	Ex d IIC/IIB T6...T3 Gb or Ex e IIC/IIB T6...T3 Gb and/or Ex tb/tc IIIC/IIIB T85°C...T150°C Db Ex d I Mb or Ex d e I Mb
Rating	xx kW, zz V

ExTR Package Contents

Assembled ExTR documents and Additional reference material:

IECEx Test Report Cover

IECEx Test Report: IEC 60079-0, Edition 6

IECEx Test Report: IEC 60079-1, Edition 6

IECEx Test Report : IEC 60079-7, Edition 4

IECEx Test Report Addendum: IEC 60079-___, Edition ___

IECEx Test Report of National Differences: IEC 60079-___, Edition ___

IECEx Test Report of National Differences: IEC 60079-___, Edition ___



IECEx Test Report

Page 1 of 1

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

ExTR Reference No.	HR/EXA/ExTR17.000000	Status	Current
ExTR Free Ref. No.	PB.16.TC.759	Date of Issue	2017-07-03
List of Standards Covered	IEC 60079-0 (Ed.6.0), IEC 60079-1 (Ed.7.0), IEC 60079-31 (Ed.2)		
Issuing ExTL	EXA - Agencija za prostore ugrozene eksplozivnom atmosferom (Ex-Agencija)		
Endorsing ExCB	EXA - Agencija za prostore ugrozene eksplozivnom atmosferom (Ex-Agencija)		
Manufacturer	[Redacted]		
Country of Manufacturer	Croatia		
Ex Protection	Ex db IIC T6 Gb Ex tb IIIC T85°C Db		
Product information	Portable lamp		
Model Reference	[Redacted]		
Ratings	42 VAC; 50-60 Hz; max. 40 W		
Related IECEx Certificates	none		
Comments	N/A		

IECEx Quality Assessment Report (QAR)



Agencija za prostore ugrožene eksplozivnom atmosferom



Quality Assessment Report
IECEx System Scheme 02 Rules and Procedures



Audit Report Number: QAR [REDACTED]

IECEx QAR Reference Number: HR/EXA/QAR17.00 [REDACTED]/00

Manufacturer (auditee): [REDACTED]
Include Address with post code

Production Site(s) audited: [REDACTED]
Include Address with post code

Product description (range): Empty enclosures [REDACTED] series [REDACTED]

No. of Employees: 32 / 5
(total in Ex-production)

Scope of Audit:
Initial Assessment
Surveillance
Re-Assessment

Equipment and protective system in the type of protection:

i	<input type="checkbox"/>	d	<input type="checkbox"/>	e	<input checked="" type="checkbox"/>	m	<input type="checkbox"/>
o	<input type="checkbox"/>	n	<input type="checkbox"/>	q	<input checked="" type="checkbox"/>	p	<input type="checkbox"/>
t	<input checked="" type="checkbox"/>	c	<input type="checkbox"/>	k	<input checked="" type="checkbox"/>	b	<input type="checkbox"/>

Protective systems

Audit Team Leader: Marko Ružić, dipl. ing. mech.

Date of Audit: 21st September 2017

Date of Report: 12th October 2017

PB.16.TI.709

Audit Team Leader
(Signature)

Department of equipment certification
Approved

Stipo Derek, dipl. ing. el.




IECEx Quality Assessment Report

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

QAR Reference No.	HR/EXA/QAR17.00 [REDACTED]/00	Status	Current
QAR Free Ref. No.	PB.16.TI.709	Date of Issue	2017-10-12
Detail of change	N/A	Valid until	2020-09-21
Site(s) audited	[REDACTED]	Audit date	2017-09-21
Issuing ExCB	EXA - Agencija za prostore ugrožene eksplozivnom atmosferom (Ex-Agencija)		
Manufacturer	[REDACTED]		
Country of Manufacturer	[REDACTED]		
Product information	Empty enclosures [REDACTED] series [REDACTED]		
Protection concept	Ex "e", "I"		
Related QARs	HR/EXA/QAR17.0001/00		
Related Certificates (manual insertion)	N/A		
Related Certificates (automatic linking)	IECEx EXA 17.0011U issue: 0		
Related Certificates for previous versions	N/A		
Comments	N/A		

IECEX Certificate of Conformity (CoC)



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification Scheme for Explosive Atmospheres


for rules and details of the IECEX Scheme visit www.iecex.com


Certificate No.:	IECEX EXA 17.00	Issue No: 0	Certificate history: Issue No. 0 (2018-03-26)
Status:	Current	Page 1 of 3	
Date of Issue:	2018-03-26		
Applicant:	[REDACTED]		
Equipment:	[REDACTED], model: [REDACTED]		
Optional accessory:			
Type of Protection:	Ex db, Ex eb, Ex q, [Ex la]		
Marking:	Ex db eb q [Ia Ga] IIC Gb [Ex ia Da] IIIC [Ex ia Ma]		
Approved for issue on behalf of the IECEX Certification Body:	Damir Korunić		
Position:	Director General		
Signature: (for printed version)	_____		
Date:	_____		

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the Official IECEX Website.

Certificate issued by:

Agencija za prostore ugrožene eksplozivnom atmosferom (Ex-Agencija)
Industrijska 25
HR-10431 Sveta Nedelja
Croatia





IECEX Certificate of Conformity

Certificate No:	IECEX EXA 17.00	Issue No: 0
Date of Issue:	2018-03-26	Page 2 of 3
Manufacturer:	[REDACTED]	

Additional Manufacturing location(s):

Pepper+Fuchs
These products may be manufactured at any Pepper+Fuchs facility that has been audited for the manufacture of the type of protection defined on this certificate; in addition, the site must also be listed on the Quality Assessment Report DE/PTB/QAR06 0008/08 or its subsequent issues. This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEX Quality system requirements. This certificate is granted subject to the conditions as set out in IECEX Scheme Rules, IECEX 02 and Operational Documents as amended.

STANDARDS:
The apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2011 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-1 : 2014-06 Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-11 : 2011 Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-5 : 2015 Edition:4.0	Explosive atmospheres -Part 5: Equipment protection by powder filling "q"
IEC 60079-7 : 2015 Edition:5.0	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:
A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:
[REDACTED]

Quality Assessment Report:
[REDACTED]

IECEX Certificate of Conformity (Unit Verification)

IECEX Certificate of Conformity	
INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres <small>for rules and details of the IECEX Scheme visit www.iecex.com</small> UNIT VERIFICATION	
Certificate No.: IECEx EXA 17.00	Issue No: 0
Status: Current	Page 1 of 3
Date of Issue: 2017-12-22	
Applicant: [REDACTED]	
Equipment: Distribution transformers	
Serial number(s) or Unique Identification: 36648; 36649	
Type of Protection: oc, oc, lc	
Marking: Ex oc lc oc IIB T3 Gc	
Approved for issue on behalf of the IECEX Certification Body:	Damir Korunić
Position:	Director General
Signature: (for printed version)	
Date:	
<p>1. This certificate and schedule may only be reproduced in full. 2. This certificate is not transferable and remains the property of the issuing body. 3. The Status and authenticity of this certificate may be verified by visiting the Official IECEX Website.</p>	
<p>Certificate issued by:</p> <p>Agencija za prostore ugrožene eksplozivnom atmosferom (Ex-Agencija) Industrijska 25 HR-10431 Sveta Nedelja Croatia</p> 	

IECEX Certificate of Conformity	
Certificate No: IECEx EXA 17.00	Issue No: 0
Date of Issue: 2017-12-22	Page 2 of 3
Manufacturer: [REDACTED]	
Additional Manufacturing location(s):	
<p>This Unit verification certificate is issued as verification that the Apparatus identified on page 1, was assessed and tested and found to comply with the IEC Standard list below. This certificate is granted subject to the conditions as set out in IECEX Scheme Rules, IECEX 02 and Operational Documents as amended.</p>	
STANDARDS:	
The apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:	
IEC 60079-0 : 2011 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-11 : 2011 Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "I"
IEC 60079-6 : 2016 Edition:4.0	Explosive atmospheres -Part 6: Equipment protection by liquid immersion "o"
IEC 60079-7 : 2006-07 Edition:4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
<p>This Certificate does not indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.</p>	
TEST & ASSESSMENT REPORTS:	
The Apparatus listed has successfully met the examination and test requirements as recorded in	
Test Report: HR/EXA/EXTR17.0000	
Quality Assessment Report: As this is a Unit Verification Certificate, no QAR is applicable as this certificate is specific to the items listed by serial number or other unique identification.	

Value in holding an IECEx Certificate

- IECEx Certificate recognized in 33 countries
- The biggest countries as China, USA, Russia, Brasil recognize IECEx certification scheme
- Confidence by various certification, e.g. IECEx, ATEX, CUTR, UL&FM , INMETRO...

Value in holding an IECEx Certificate

IECEX is an important tool with value:

- High confidence in meeting international standards
- Quick access to national certification within IECEx member countries
- Continuous improvement by IECEx audit

Value in holding an IECEx Certificate

Certification

- Advanced model based on ISO type 5
- Transparent on-line certification base

Production

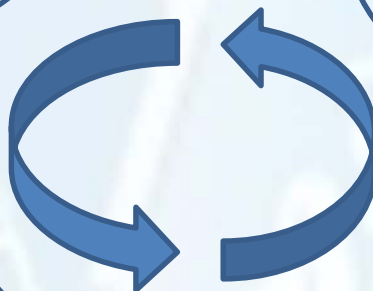
- Ensure that design meets international standard
- Ensure controlled production process

Market access

- Reduce time to worldwide market

Reputation

- Recognition by end user



Value in holding an IECEx Certificate

Evident increase in the number of IECEx certification over the years

Issued in the Year of	CoCs	ExTRs	QARs
2003	13	10	10
2004	98	62	50
2005	263	137	133
2006	570	923	265
2007	932	935	363
2008	1265	1235	550
2009	1492	1361	716
2010	2072	1953	951
2011	2619	2245	1033
2012	2695	2461	1255
2013	3124	2908	1396
2014	3584	3344	1514
2015	3936	3740	1822
2016	4128	3874	1928
2017	4119	3769	1849

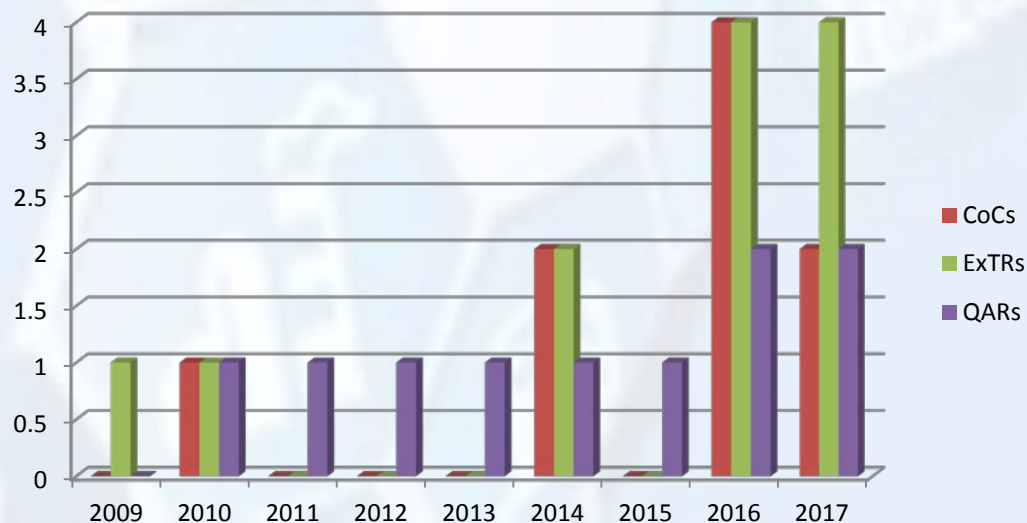


Value in holding an IECEX Certificate

The number of IECEX certification over the years in Croatia and in neighborhood

IECEX certification in Croatia

Issued in the Year of	CoCs	ExTRs	QARs
2009	0	1	0
2010	1	1	1
2011	0	0	1
2012	0	0	1
2013	0	0	1
2014	2	2	1
2015	0	0	1
2016	4	4	2
2017	2	4	2

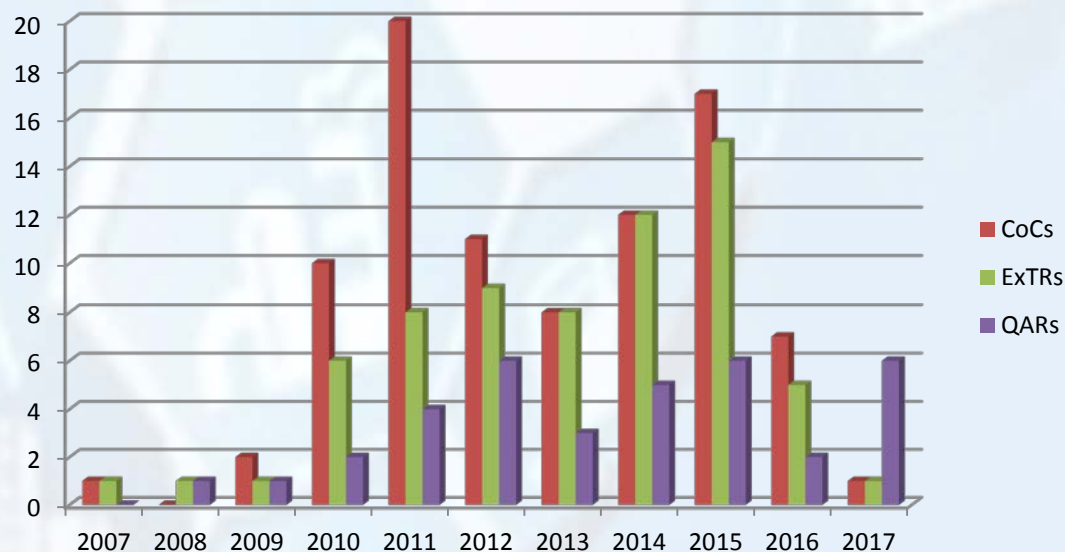


Value in holding an IECEx Certificate

The number of IECEx certification over the years in Croatia and in neighborhood

IECEx certification in Slovenia

Issued in the Year of	CoCs	ExTRs	QARs
2007	1	1	0
2008	0	1	1
2009	2	1	1
2010	10	6	2
2011	20	8	4
2012	11	9	6
2013	8	8	3
2014	12	12	5
2015	17	15	6
2016	7	5	2
2017	1	1	6

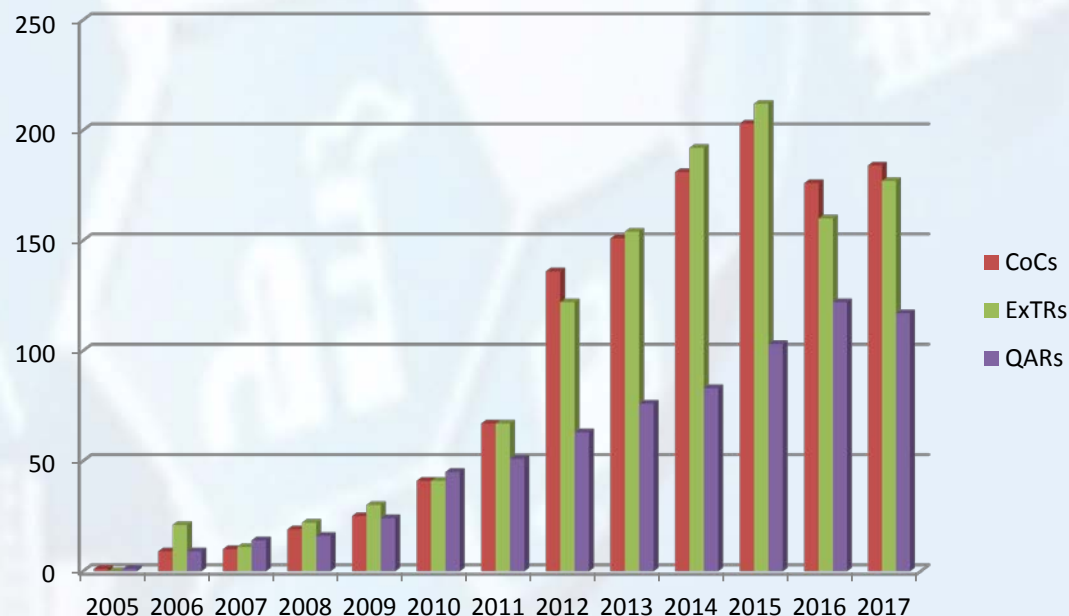


Value in holding an IECEx Certificate

The number of IECEx certification over the years in Croatia and in neighborhood

IECEx certification in Italy

Issued in the Year of	CoCs	ExTRs	QARs
2005	1	0	1
2006	9	21	9
2007	10	11	14
2008	19	22	16
2009	25	30	24
2010	41	41	45
2011	67	67	51
2012	136	122	63
2013	151	154	76
2014	181	192	83
2015	203	212	103
2016	176	160	122
2017	184	177	117



Value in holding an IECEx Certificate

- There are not many issued IECEx Certificates for manufacturers in Croatia

What is the reason?

- The value of IECEx certification is not yet recognized in Croatia
- There are not enough large manufacturers – international players

What can we do?

- Promote IECEx System
- Explain procedures
- Explain value of an IECEx Certificate

International Electrotechnical Commission System
for Certification to Standards Relating to Equipment
for Use in Explosive Atmospheres (IECEX System)



Thank you

Damir Korunić
Director General
Ex-Agencija
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