

**2024 IECEx International Conference  
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# **Accreditation of conformity assessment bodies for products used in explosive atmospheres**

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Director General



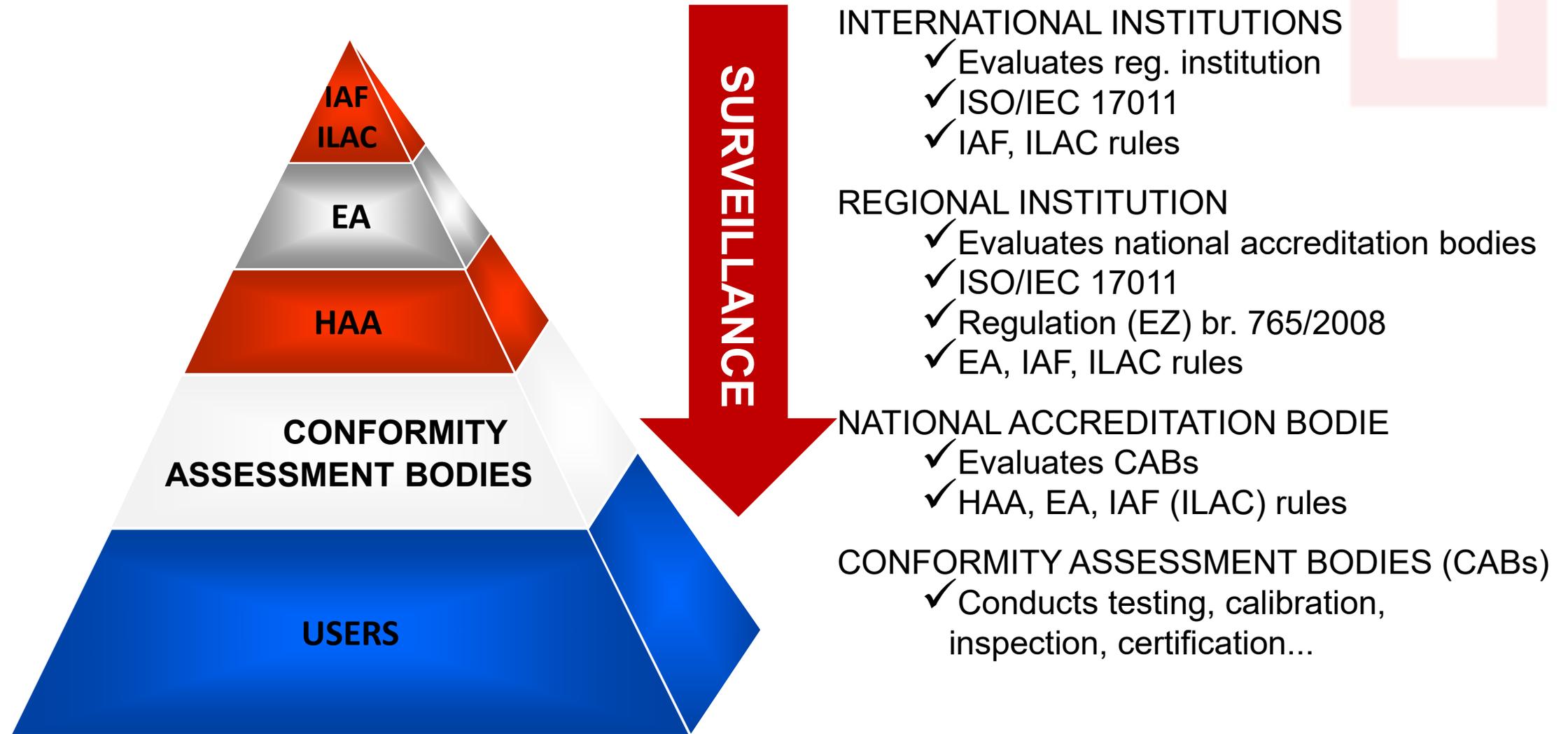
Hrvatska akreditacijska agencija  
Croatian Accreditation Agency

# What is accreditation?

Accreditation is the procedure by which the accreditation body assesses the conformity assessment body and confirms that it is organizationally, professionally, and technically qualified to work in accordance with internationally accepted rules.



# International recognition of accreditations





# One certificate / acceptable everywhere



## IECEX Conformity Assessment System

- for equipment used in explosive atmospheres
- recognizable based on IEC normative documents (EN standards/specifications)
- voluntarily accepted (manufacturers and users)
- confirmed by accredited conformity assessment bodies

IECEX certificates are a guarantee of quality and reliability in a certified product or service for activities that take place in explosive atmospheres.

Accreditation – third-party attestation related to a conformity assessment body conveying formal demonstration of its competence to carry out specific conformity assessment tasks according to the requirements of international standards and specifications.

## Croatian accreditation agency

- established as a unique national body
- its organization and operation fulfills the provisions of Regulation (EC) no. 765/2008
- EA MLA is an agreement signed among national accreditation bodies - to recognize and accept the equivalence and reliability of individual accreditation services and thus the certificates and reports issued by the organizations they accredit (conformity assessment results)



Contribution to the free trade idea - **"one test and one certificate acceptable worldwide"**

# HAA - Accreditation in the field of Ex areas protection

**Accreditation:** HRN EN ISO/IEC 17025:2015 (testing as a precondition for certification)

**Scope of accreditation:** testing of Ex-equipment and explosive parameters of a flammable media

**Subject of testing** (materials/products): Flammable dusts, gases and vapours, Ex equipment and Ex Components

## Type of test:

### Dusts and gases:

- determination of a minimum ignition temperature of a dust layer and gases
- testing of minimum spark energy required to ignite dust cloud
- determination of the maximum explosion pressure  $p_{max}$  of dust clouds, gases and vapours
- determination of dust flammability

### Ex equipment:

- Temperature measurements, mechanical strength test, explosion testing, testing of equipment protection, dielectric strength test, surface resistance test, thermal endurance to heat and cold

**Test methods:** according to international standards such as IEC 80079-xy, IEC 60079-xy, IEC 60529



# HAA: Accreditation in the field of Ex areas protection



**Accreditation :** HRN EN ISO/IEC 17065:2013

**Scope of accreditation:** Certification of explosion protected equipment

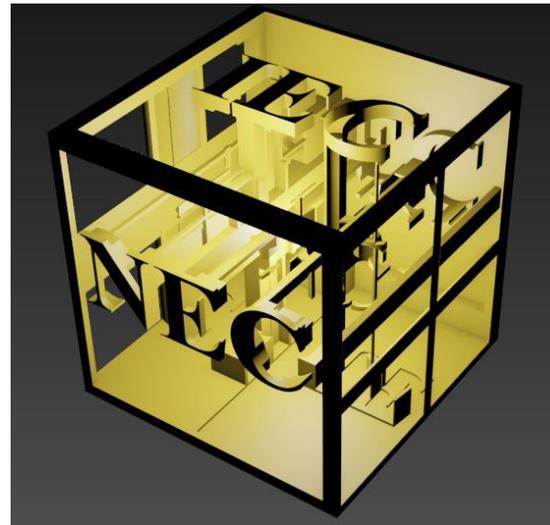
**Certification scheme based on:** IECEx System for certification according to the standards related to equipment used in explosive atmospheres (IECEx Certified Equipment Scheme) IECEx 02, Issue 8.0/2022-02

**Subject to certification (materials/products):**

- Pressurized room and artificially ventilated room
- Equipment assemblies
- 2-wire intrinsically safe ethernet concept (2-WISE)

**Conformity assessment procedure:**

- IECEx type verification
- IECEx unit verification



**Normative documents:** IEC 60079-13, IEC TS 60079-46, IEC TS 60079-47

# HAA: Accreditation in the field of Ex areas protection

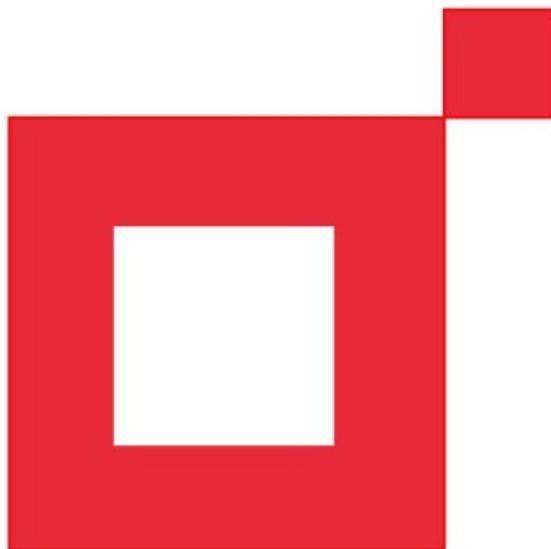


HAA accredits and supervises the retention of competence of around 460 different conformity assessment bodies.

Among the accredited scopes are also procedures from the IECEx System.

By applying international standards, accepted in Croatia by HZN, the idea of **"one test and one certificate acceptable worldwide"** is realized daily.

It allows our manufacturers to order testing and certification of products in domestic conformity assessment bodies and to be equal and competitive on the world market.



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