

# Overview and Vision of the IECEX – System

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# Hanza

na mapie zaznaczono najważniejsze miasta

- ▲ - główna placówka handlowa "Kontor"
- - miasta należące do Hanzy

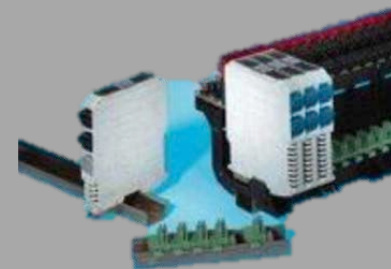








## Products covered by IECEx





## What IECEx wants

The objective of the IECEx System is to facilitate **international trade in equipment** for use in explosive atmospheres, while maintaining the required level of safety.



## IECEx - membership

Australia

Brazil

Canada

China

Croatia

Czech Republic

Denmark

Finland

France

Germany

Hungary

India

Israel

Italy

Japan

Republic of

Korea

Malaysia

Netherlands

Norway

New Zealand

Poland

Romania

Russia

Singapore

Slovenia

South Africa

Spain

Sweden

Switzerland

Turkey



United Arab Emirates

United Kingdom

United States of America

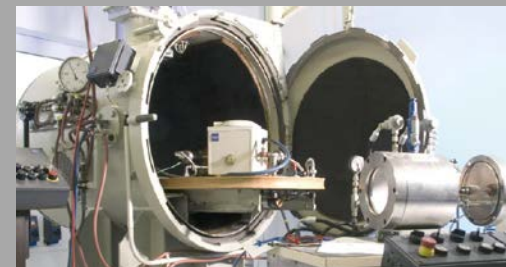


# The IECEx Life Cycle Approach



Maintenance

Design



Test

Inspection

**IECEx covers all safety –  
related aspects of explosion  
protected equipment over  
the complete life cycle**

Use

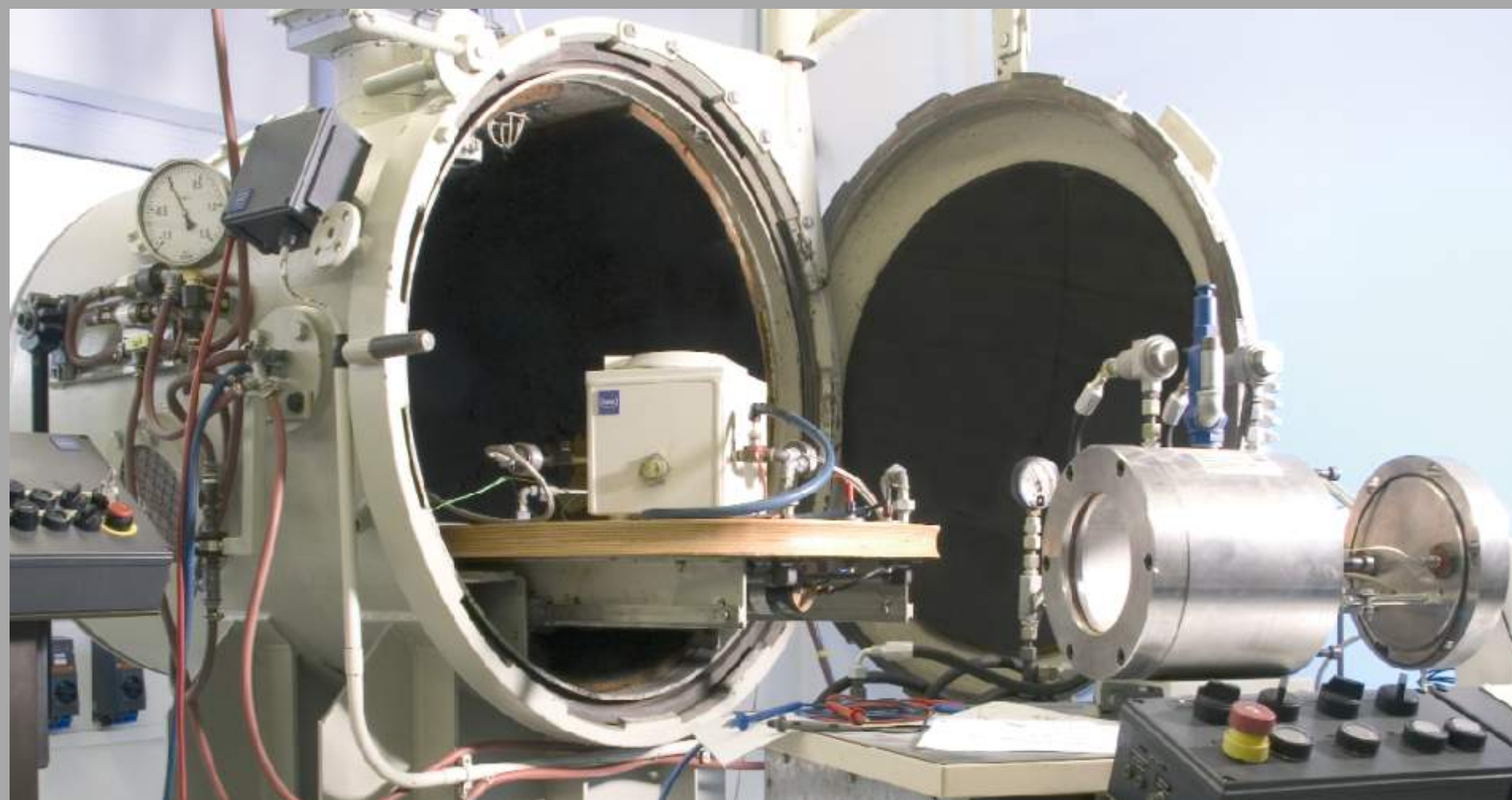
Production

Installation

Selection



# The IECEx Certified Equipment Scheme

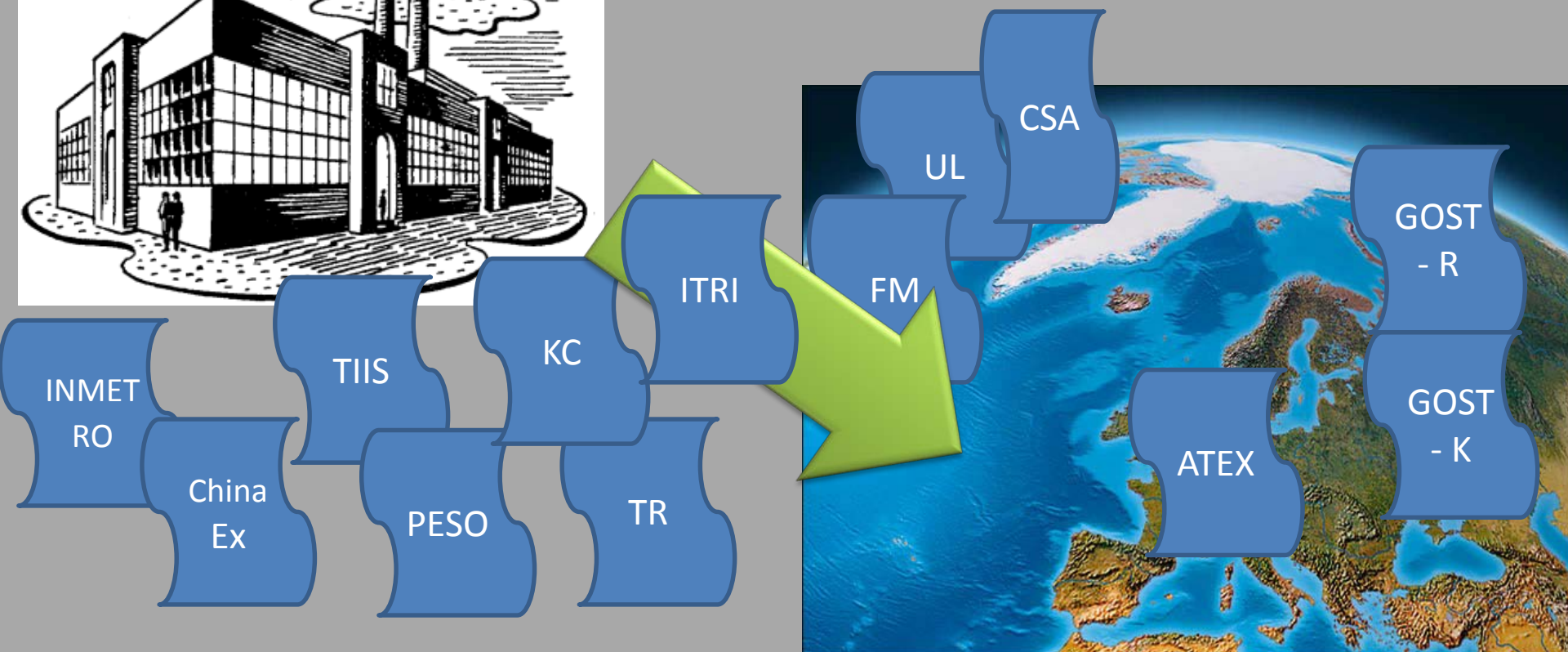




# International Ex world yesterday & today



**This product is safe !!!**



# What is the consequence ?





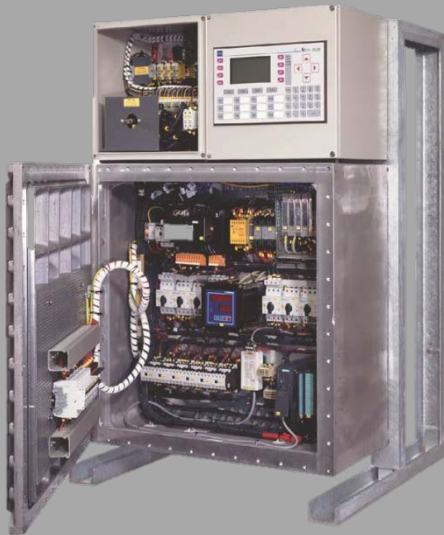
## The IECEx objective (vision)

**Rules of procedure IECEx 02:  
Paragraph 5.6:**

**The final objective of the IECEx –  
Certified Equipment Scheme is  
Worldwide acceptance of one  
standard, one certificate and  
one mark.**



# Interest of the Industry manufacturing Ex-Products





EUROPÄISCHE UNION  
BUNDESREPUBLIK  
DEUTSCHLAND



REISEPASS

# Interest of the Industry using Ex-Products





# IECEx – what is the reality?

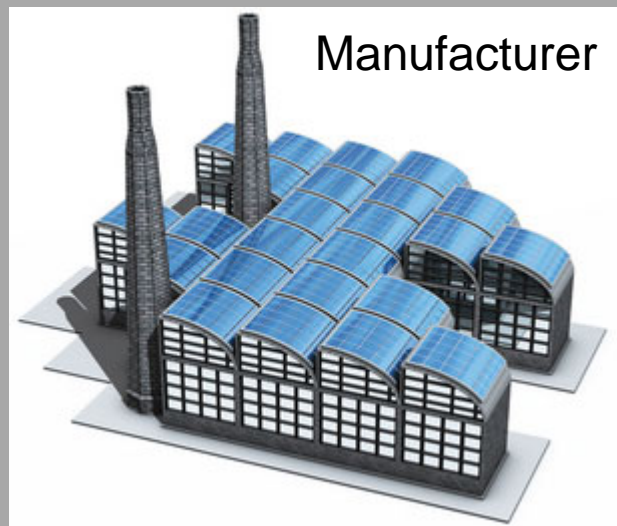


# The „fast track procedure“





## Use of a local assembler



Written application +  
procedure to ensure  
conformity



Extension of the scope  
of the QAR

Local Assembler



### Written procedure:

- Makes the assembler responsible for his part in the process
- Ensure that all appropriate assembly instructions are available
- Transfer identified components to the assembler
- Final inspection, final marking, customer documentation
- Traceability of products delivered to the market



# The IECEx Service Scheme



# Outsourcing

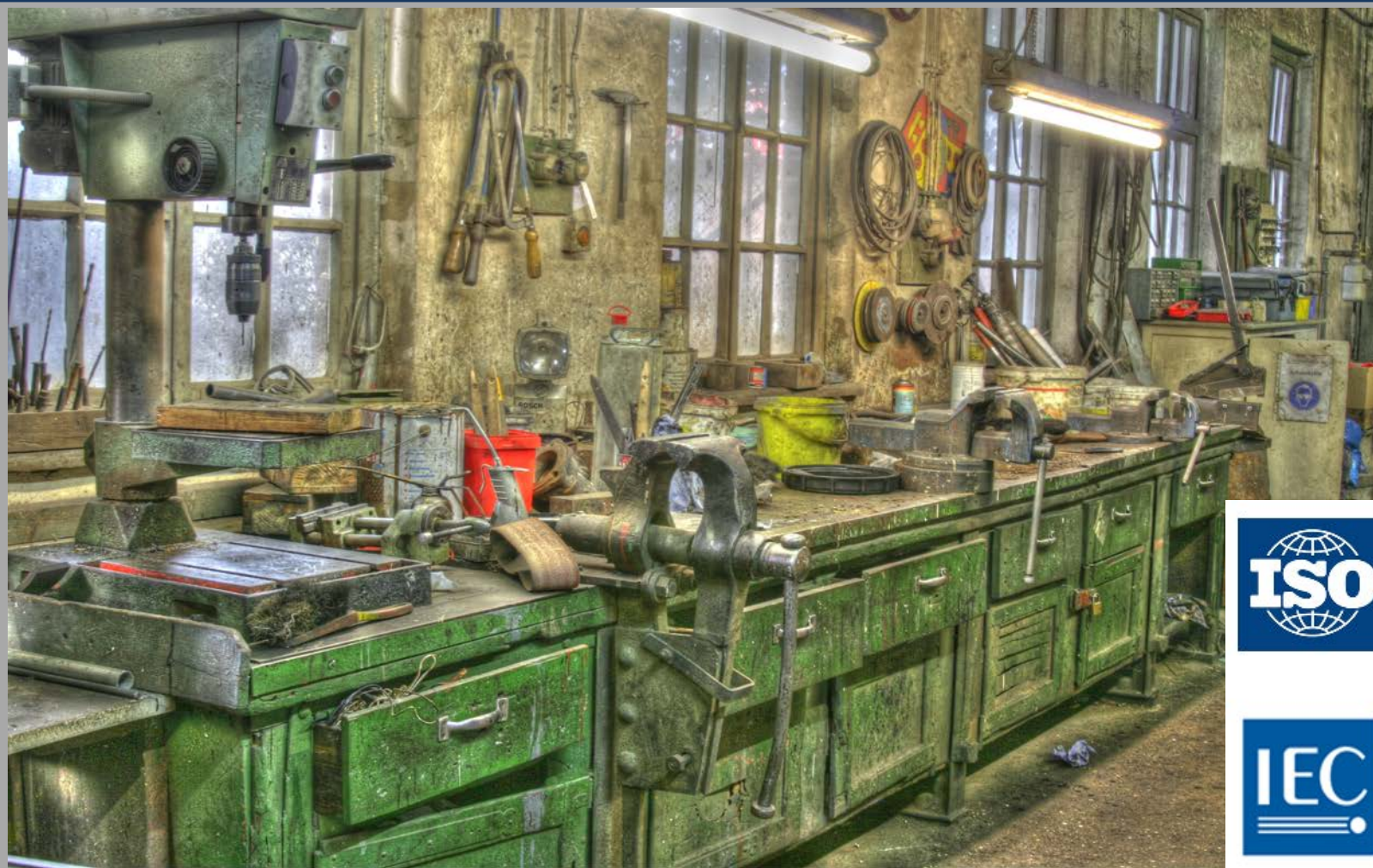


## IECEx Certified Service Facility Scheme





## Basic Standards: IEC 60079 – 19: Equipment repair, overhaul and reclamation



International  
Organization for  
Standardization



INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

➤ Basic Question: Is a repair facility able to fulfil the requirements of this standard?



## IEC 60079 – 19: General Requirements

Repair facilities shall....



...operate a  
QM -system

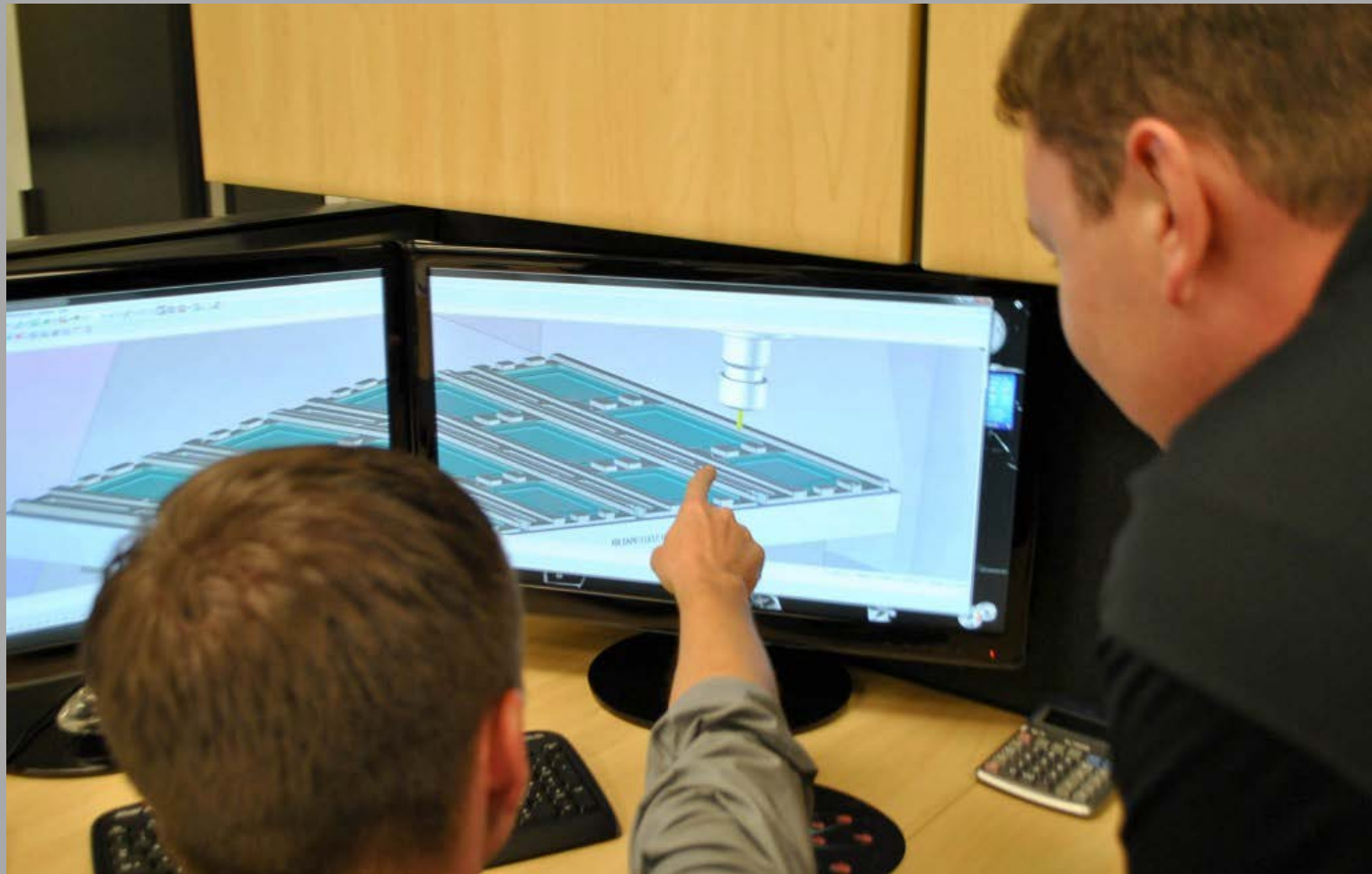


...appoint a res-  
ponsible person



...have adequate  
repair and overhaul  
facilities

# New: Certification of planning & engineering services



# New: Certification of installation services





# New: Certification of inspection & maintenance services



# The IECEx Personal Competence Scheme





# What is competence?



Knowledge



Acquired skills



Tasks duties and responsibilities

# Evidence of competency?



Knowledge



Experience



Skills

# Four functions of Competency



Task Skills



Task Management Skills



Contingency Management Skills



Job/Role environmental skills




# Certification Process

Appropriate Mix of Competences to be certified

Ex CB examines:

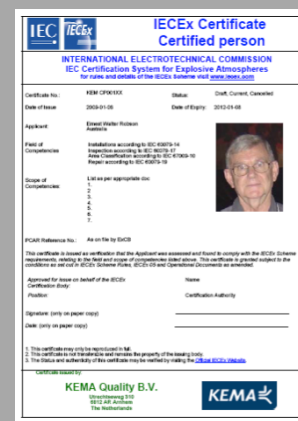
IECEx Certified Person



  
**Knowledge**

  
**Skills**

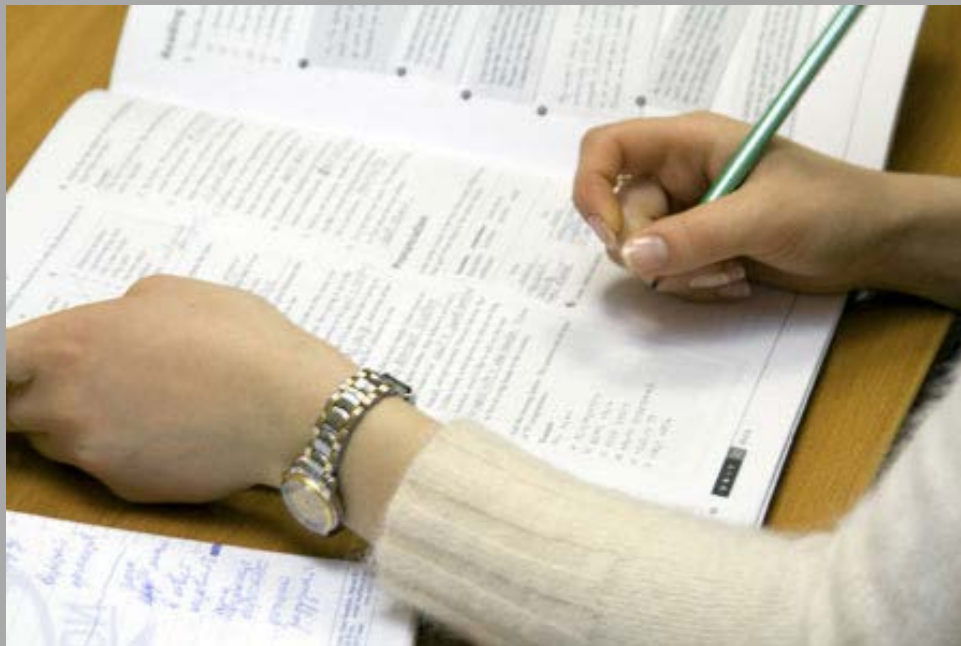
  
**Experience**



**Surveillance – Re Assessment**

# Written Examination plus practical assessment

Performance assessment bays for the  
Unit Ex 003, Ex 007, Ex 008





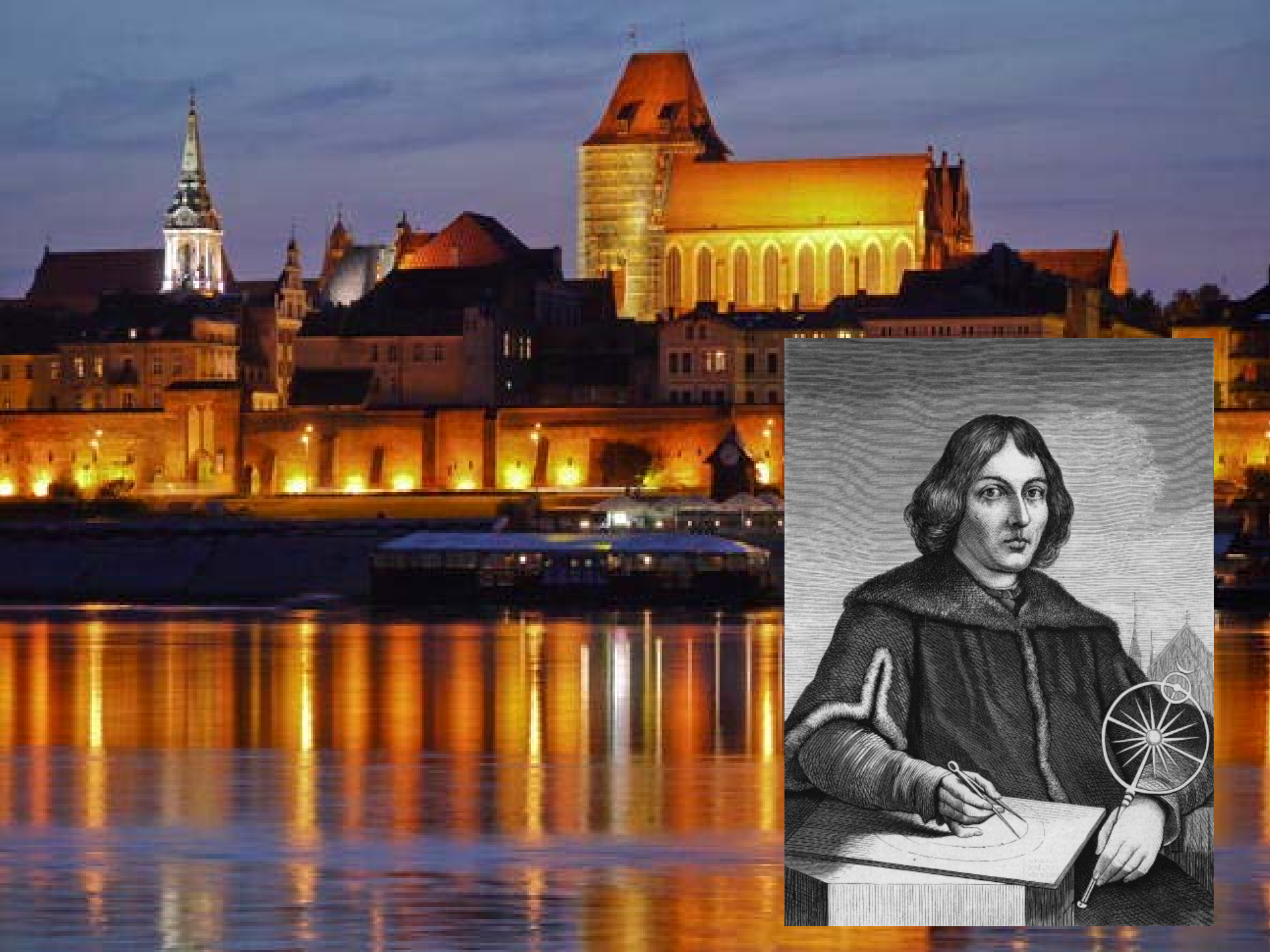
# Finally: Where to find the Equipment certificates



The screenshot shows a web browser window with the address bar displaying <http://iecex.iec.ch/>. The page title is "IECEX Certificate of Confor...". The website header features the IEC and IECEx logos on the left and the "IECEX CoC ONLINE" title on the right. Below the header, a navigation bar contains the text "IEC System for Certification to Standards relating to Equipment for use in Explosive Atmospheres (IECEX System)". The main content area is divided into four sections, each with a title and a link:

- IECEX System :: Certified Equipment Scheme**  
[Certified Equipment](#)
- IECEX System :: Certified Service Facility Scheme**  
[Certified Service Facilities](#)
- IECEX System :: Conformity Mark License System**  
[Conformity Mark Licenses](#)
- IECEX System :: Certified Person Scheme**  
[Certified Persons](#)

The footer of the website displays the copyright notice: "Copyright © IEC 2014. All rights Reserved". The Windows taskbar at the bottom shows the system clock as 15:40 on 02.12.2014.





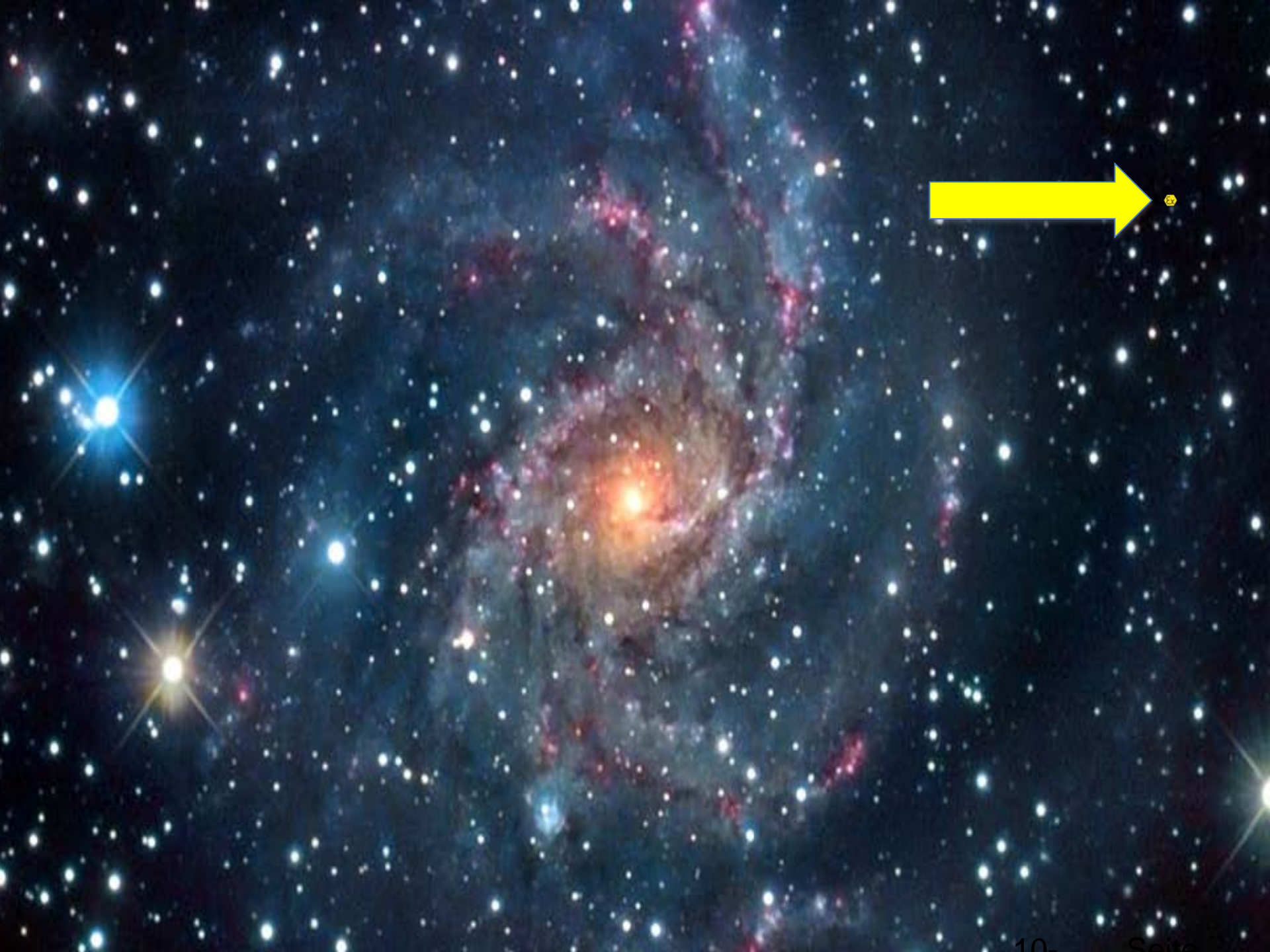


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# Thank you