

# Building(s in) the Future

Milan, 2019 November 14th



# WINNING TOGETHER



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Service portfolio for buildings industry



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## **About DEKRA**

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# ABOUT DEKRA

DEKRA has been active in the field of safety for 90 years. Founded in 1925 in Berlin as Deutscher Kraftfahrzeug-Überwachungs-Verein e.V., it is today one of the world's leading expert organizations.

With qualified and independent expert services, we work for safety in more than 50 countries.



# OUR VISION





# OUR GROWING FOUNDATION FOR SUCCESS



## Employees



## Total Revenue | in Million Euros



26,000,000  
Vehicle  
Inspections p.a.



25,000  
System  
Certifications p.a.



In 20 countries  
accredited as a  
Certification Authority

# WE THINK AHEAD FOR SAFETY



The automated world of tomorrow needs clear guidelines and standards to make the interaction of technology and equipment with humans and their attitudes and behaviors completely safe. That's why we think ahead for safety.

## Fields of ACTION



Road Safety



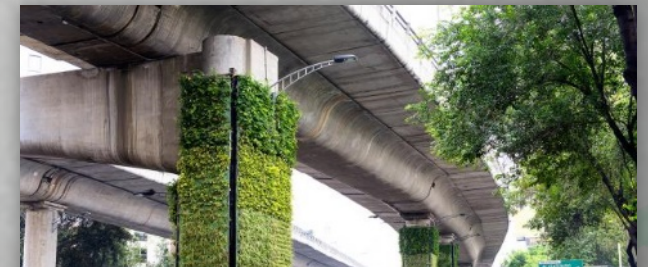
Work Safety



Autonomous Driving



Cyber Security



Clean Air



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## The ideal partner for safety

Guaranteeing environments that promote safety and health is of fundamental importance for the well-being of people. For this reason, DEKRA has developed specific skills in the area of certification related to the world of construction.

Through our highly qualified staff, we are able to offer certifications and tests on building materials, inspections on elevators and escalators, mechanical, electrical and hydraulic systems, with particular attention to corporate timing and policy & compliance.

In particular we are able to offer:

- Buildings appraisals
- Quality System - ISO 9001
- EN 1090-1 Certification
- F-Gas Certification for people and companies
- EN ISO 3834 Certification
- Welding and brazing personnel certification



In addition to certifications, DEKRA's offer includes solutions for the evaluation and appraisal of buildings.

In the field of real estate appraisals, DEKRA employs a qualified team of experts who acquire all the information and documentation to support the assessment of the asset in question.

Using the most technologically advanced tools and resources, such as the specific i2i application, our professionals carry out all the necessary research, analysis and expertise with a site inspection.

Our experts use estimation tools recognized in the sector, in addition to extensive experience in the assessment and drafting of accurate and reliable documents and every survey is carried out according to precise quality standards and internationally recognized assessment methods, guaranteeing impartiality and reliability.

At the end of the activity, the expert is able to identify, therefore, the real market value of the asset and to verify that the property can be freely traded.





## Quality System - ISO 9001

ISO 9001 certification is important for the internal and external development of the company, as well as an internationally recognized certificate.

The standard specifies the requirements of a quality management system when an organization:

- a) has the need to demonstrate its ability to regularly supply products or services that meet the customer's requirements and applicable mandatory requirements;
- b) aims to increase customer satisfaction through the effective application of the system, including the processes for improving the system itself and ensuring compliance with customer requirements and applicable mandatory requirements.

With the certification you will give your company more opportunities for development and you will be more competitive on world markets. Furthermore, the reduction of internal errors, thanks to continuous improvement, will increase customer and employee satisfaction thanks to well-defined processes.

From September 2015, the ISO 9001: 2015 standard is in place with a structure based on the High Level Structure model, which also facilitates the integration of management systems.



## EN 1090-1 Certification

The EU Regulation 305/2011 CPR, which since July 1, 2013 replaced Directive 89/106 / EC, requires manufacturers to affix the CE marking on construction products in order to guarantee the free circulation of construction products in the Union European.

The CPR Regulation applies, in particular, also to the execution of steel or aluminum structures for which it is mandatory to comply with the safety requirements of the Harmonized Standard EN 1090-1.

The field of application of EN 1090-1 includes steel and aluminum components used in a multitude of construction works: warehouses, buildings, schools, offices, road infrastructures, steel and concrete bridges, pylons, for example . The structural components can be used directly in the works or be incorporated in them after being assembled.

It is important to remember that the UNI EN 1090 refers to reference, as far as welding is concerned, also to other standards such as ISO 9606-1 and EN ISO 15614 (Qualifications procedures and welders) and UNI EN ISO 3834 (Process management system welding). A welding process management system in accordance with UNI EN ISO 3834 (a valid certificate in accordance with UNI EN ISO 3834 is the best option to meet this requirement) The Qualification of Welding Processes, Welders and Operators.





## F-Gas Certification Decree of the President of the Republic November 16, 2018 n. 146 (EU Execution Regulation 2015/2067)

### For people

The professional figure operating on refrigeration equipment containing certain fluorinated greenhouse gases (F-GAS Officer) is a natural or legal person who exercises effective control over the technical functioning of the equipment and plants covered by the EU regulation 517/2014.

Specifically, the profession works to control the loss of equipment containing at least 5 tons of CO<sub>2</sub> equivalent of fluorinated greenhouse gases and not contained in foams (unless the equipment is hermetically sealed, labeled as such and containing fluorinated gases with greenhouse effect in quantities less than 10 tons of CO<sub>2</sub> equivalent). It also operates in the recovery, installation, repair, maintenance or assistance and in dismantling.

### For companies

The certification of companies has a duration of 5 years and is mandatory for all companies that operate with fluorinated greenhouse gases that carry out activities of:

- installation, repair, maintenance, servicing and dismantling of stationary refrigeration, air conditioning and heat pump equipment containing certain fluorinated greenhouse gases (Regulation (EU) 2018/2067 (ex 303/2008);
- installation, servicing, maintenance, repair or dismantling of fire protection equipment containing fluorinated greenhouse gases (Regulation (EU) 304/2008).



## EN ISO 3834 Certification

The fusion welding process is widely used for the production of simple and complex industrial products.

The application of the UNI EN ISO 3834 standards bring benefits to manufacturers for the definition and maintenance of quality requirements for welding and, as a guideline for the checks / qualifications of welded product suppliers, bring advantages in contractual situations for the definition of welding requirements.

The standard is structured so that it can be used for manufacturing, both in the workshop and on the construction site, of any type of fusion welded construction and its application can be extended to a wide range of companies:

- manufacturers of pressure components, assemblies or piping subject to national or international regulations (PED, ASME);
- manufacturers of welded structures for traditional plant applications and for buildings;
- producers operating in the railway sector and in the plant engineering field (chemical plants, petrochemicals, energy production, iron and steel industries, etc.).





## Welding and brazing personnel certification

DEKRA Testing and Certification S.r.l. provides the certification service regarding both personnel and welding processes according to the following rules:

- EN ISO 9606
- EN ISO 14732
- EN ISO 15614
- AWS

During the welding personnel certification process, the inspector DEKRA Testing and Certification S.r.l. accompanies the candidate from the issue of the WPQ until the release of the final certification document.

In order to facilitate the movement of personnel requesting certification, DEKRA avails itself of examination centers located throughout the national territory. Furthermore, depending on the needs of the companies, on request, exams can also be carried out at company offices and / or at construction sites.

### **NDC Personnel Certification**

DEKRA Testing and Certification S.r.l. offers the personnel certification service for all the control methods listed in ISO 9712. In particular VT Visual Test, MT Magnetic test, PT Penetrant Test, RT Radiographic Test, UT Ultrasonic Test, ET Eddy current Test, LT Leak Test, nIT Infrared Test, AT Acoustic Emission Test, ST Strain Test

THANK YOU  
FOR TAKING  
CARE OF  
SAFETY!

