

DEKRA SE provides sustainable safety, quality and environmental protection in more that 50 countries worldwide

International subsidiaries

- DEKRA Automotive in 28 countries
- DEKRA Industrial in 25 countries

DEKRA Personnel in 11 countries

Active in Europe as well as in North America, South America, Asia, South Africa, North Africa, Israel





DEKRA SE

3 Business Units with 12 strategic business fields



AUTOMOTIVE

Vehicle Inspection

Expertise

Used Car Management

Homologation & Type Approval

Claims Services



INDUSTRIAL

Industrial & Construction Inspection

Material Testing & Inspection

Product Testing & Certification

Systems Certification

Consulting



PERSONNEL

Training & Education

Temporary Work

DEKRA SE

Revenues (cons.) in millions of EUR	2013	2014	2015
DEKRA SE	2,310.9	2,509.8	2,720
DEKRA Automotive	1,225.3	1,328	1,575
DEKRA Industrial	674.2	702	681
DEKRA Personnel	390.3	456	464
Employees (as of Dec. 31)	32,591	35,021	36,680



DEKRA Italia

- Headquarters in Cinisello Balsamo (MI) and Rome
- 12 service lines in the sectors Automotive, Industrial e Personnel
- Turnover of 46 Mil. euro
- More than 500 people





DEKRA Insight



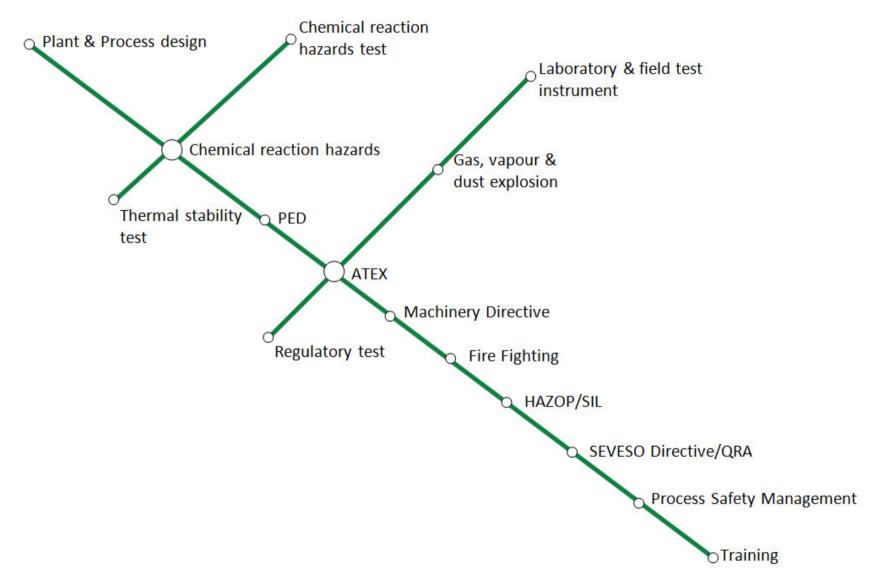
DEKRA INSIGHT IS THE GLOBAL LEADER IN SAFETY AT WORK. WE GUIDE CLIENTS IN TRANSFORMING THEIR ORGANIZATIONAL CULTURE AND THEIR OPERATIONAL ENVIRONMENT.

DEKRA Insight represents the collective expertise of our legacy, each an institution in safety

- BST
- Chilworth
- RCI Safety
- Optimus Seventh Generation
- RoundTheClock Resources
- Russell Consulting



Our Services





Fire and Explosion Hazards

- Dust, gas and vapor flammability hazards
 Explosion and flammability characteristics
 Ignition sources and electrostatics
- ATEX 95 and 137 compliance
 Hazardous Area Classification (HAC)
 Electrical and mechanical inspection and risk analysis
 Explosion Protection Document (EPD)
- Lightning risk analysis
- Electrostatic hazards
 Ignition sources and sparks
- Explosion protection: venting, suppression ...



Safe Process Design

- Chemical reaction hazards and risk assessment
- Emergency release systems PED & DIERS
 PSV design and verification
 Blow down design and verification
- Safe process design
 Feasibility studies
 Basic process design (Layouts, P&ID, equipment, SOP...)
- Design and verification of fire fighting plants according to UNI, API, NFPA ...



Process Hazard Analysis and Risk Analysis

- In EMEA a team of 20+ experienced facilitators of Process Hazard Analysis HAZID, FMEA, What-If, HAZOP, LOPA, FTA/ Bow-Tie
- SIL Assignment and Verification for new and existing plant
- With in-depth process safety expertise
- In all process industry sectors: Chemicals, Pharma Oil & Gas, Food Industry, Energy ...
- In most major languages: English, Spanish, German, French, Italian, Hindi, Chinese...
- Using dedicated software



QRA, Consequence Modelling

- Quantitative Risk Analysis (QRA)
- Experience in consequence modelling using PHAST and EFFECTS:

Explosion simulation and blast effects: VCE, BLEVE, ...

Physical effects and energetic consequences (e.g. blast resistance)

Thermal radiation effects: pool and jet fires, ...

- Toxic release dispersion modelling in air
- Toxic release dispersion modelling in water and ground with dedicated software

For Regulatory compliance: Preparation of Seveso safety reports for Authorities, Risk analysis and mitigation measures, Land-use planning, Incident investigation



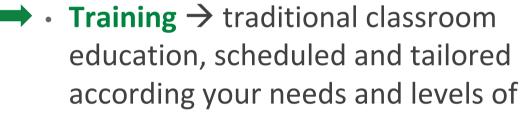
Process Safety Excellence



Competence is made up of 3 elements:

The Chilworth Process Safety Academy helps you in developing competence in Process Safety:

 Knowledge → set of foundamentals of a discipline



Practice → knowledge = implementation

 Workshop and on site pratical sessions, with a tutorial support

Expertise → set of practical experiences

 Mentoring during the implementation of knowledge and practice acquired during trainings and workshops

audience

4 core elements





Open training solutions

- Relevant for individuals or small numbers of staff
- Opportunity to share experience with other companies, across sectors
- Cost effective for small numbers

Training + ...

- Proficiency tests
- Follow-up webinar
- Consulting support by phone



Competence development programs

- Tailored to your processes, sector and process safety programs in place
- Global consistency (global delivery, multilingual capability, all based on a core, agreed syllabus)
- Confidential
- Cost effective for larger numbers
- Gateway to process safety support 'on demand'



➤ The Chilworth Process Safety Academy
■ Assists in bringing competence to organizations in Process Safety.

 Provides a global platform for consistent education, according to established syli in all core elements of Process Safery.

> ur proficiency and mentoring, is available in all major international languages, tailored to specific requirements delivered through our local centers of excellence across the globe.











Training + ...

- Competence development programs
- On-site training
- Tutoring and mentoring
- Proficiency test
- Process safety support 'on demand'
- Follow-up





Laboratory Services

Over 300 Standard and Non-Standard Tests:

- Flammability/combustibility properties of dusts, gases, vapours, mists and hybrid atmospheres
- Chemical reaction hazards and chemical process optimization
- Thermal instability
- Energetic materials: explosives, propellants, pyrotechnics, ...
- Regulatory testing: REACH, UN, CLP, ADR, DOT, ...
- Electrostatic testing for FIBC's, liners, shoes, ...
- Fire testing of materials
- Special ad-hoc testing



Laboratory Services & Instruments

World Leader of
Explosion and
Process Safety Data
Acquisition

GLP and ISO 17025 accredited laboratories in USA & Europe

Handling toxic and highly active materials

Customized and large-scale testing

Specialist instruments for process safety labs and electrostatics applications



They trust us









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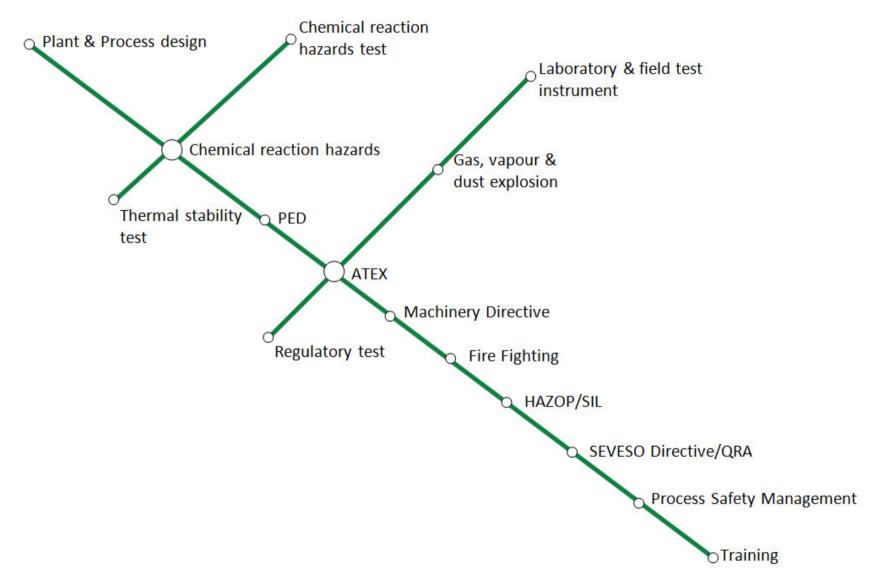
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