

# Industrial Goods Production



## Safe and efficient production for optimal performance and higher profits

A robust environmental management system implementing safe and efficient production methods is key to creating a healthy workspace, maximizing performance, protecting the environment in which you operate and remaining compliant with legal regulations and competitive. Our experts provide comprehensive services targeting manufacturing challenges. We work closely with you to develop solutions and strategies appropriate to your particular industrial needs and circumstances.

### Sustainability Solutions – achieving a more efficient production

Successful businesses rely on long-term strategies to maintain continual operation at maximum capacity and minimal cost while caring for employees, conserving energy and preserving the natural environment according to international standards.

#### Company Representative for Emission Control Training

A professional officer for emission control must ensure the company's compliance with international standards and regulations at all times. Skilled officers understand the best practices in pollution reduction as well as health and safety protocols to protect both the environment and the bottom line of the business. DEKRA provides the training your company representatives need to be qualified and effective in emission control.

#### Energy Efficiency Measurements

Our customers know that energy efficiency is a topic of great importance for their business. DEKRA can support you in reducing energy losses, whether via power consumption measurements to optimize the calculation and design of the power supply, or thermographic measurements to identify and reduce the energy loss areas. These services enable you to successfully design and maintain buildings with the lowest possible energy and utilities consumption.

#### Environmental Advisory and Services

Prioritizing environmental responsibility, our environmental consultants and advisors look not just at compliance, but also how your company can increase efficiency. If your sector requires environmental appraisals, assessments or permits, our experts are there to help with extensive experience in providing environmental assessments, due diligence services and on-site advisory services.

#### Environmental Management Systems Training

A successful audit requires a true understanding of the requirements set by the standard ISO 14001. This training offer includes hands-on workshops to prepare you for real-life auditing situations. You will learn to manage the audit process and complete reporting in a collaborative and engaging environment.

## Health, Safety and Environment (HSE) Management System

Our ISO 50001 certification improves energy efficiency with the introduction of an effective energy management system, while ISO 14001 certifies your environmental management system to demonstrate sustainable operation.

## Health, Safety and Environment (HSE) Training and Examination

Participants in this training program learn how to set up an energy and environmental as well as health and safety management systems. Our accredited personnel certification services cover a wide range of requirements generally recognized on the international stage. Training and certification, both accredited and non-accredited, are available for ISO 9001, ISO 14001 and ISO 50001 and can be customized for your requirements.

## Health, Safety and Environment (HSE) Strategy and Management

Maintaining strong HSE management is the most efficient way to ensure the well-being of your staff and, by extension, the continued existence of your business. Our HSE strategy consultants help companies design a roadmap for a comprehensive HSE policy that improves safety by protecting personnel from hazardous exposures and ensuring an accident-free and healthy workspace. In addition to addressing compliance issues, our experts assist you in reducing environmental impact, creating a supportive culture and promoting performance improvements.

## Mandatory and Voluntary Control Services for New and Adapted Infrastructures

DEKRA offers a comprehensive range of testing and validation services in the building, renovation and maintenance of your facility based on expert construction assessments and building technology. During the construction phase, DEKRA inspectors can help you implement robust strategies to reduce energy consumption. Our extensive portfolio of mandatory and voluntary inspection services provides solutions for every situation.

## Mandatory and Voluntary Inspection for Fire Protection and Ventilation Systems

The risk of fire is a huge threat for your employees and company assets. DEKRA is accredited to carry out tests before the commissioning of a building, as well as provide ongoing or recurrent inspection and testing. Our fire protection experts can work with you to ensure that your project meets all legal fire safety requirements. During construction, we conduct inspections to detect building technology faults and defects from the earliest planning stages. Our specialists provide support in the areas of technical building equipment and electrical installations as well ventilation systems required by the manufacturing process.

## Mandatory and Voluntary Inspection of Electrical Installations

Through comprehensive programs and reporting, our experts secure your electrical systems to ensure compliance, detect errors



and minimize costs from the earliest planning stages. DEKRA operates as an accredited body or with specially authorized electricians to carry out mandatory initial and non-periodic inspections. We also provide accurate thermographic measurement services using infrared thermography to minimize the risk of unscheduled downtime, conserve energy, improve safety, ensure quality and save money.

## Mandatory and Voluntary Inspection Services for New and Adapted Processes, Machinery and Equipment

DEKRA experts provide comprehensive support tailored to the customer's needs in ensuring that cranes, lifting equipment and other machinery meet all necessary safety standards and regulatory obligations. Whether on-site, online, or from a remote location, we help you optimize your workflow, reduce costly downtime, increase safety and prolong the service life of your machines and equipment. Our technical competences related to machines and industrial equipment are available at the earliest stages and throughout the life cycle of your asset.

## Mandatory and Voluntary Inspection Services of Environmental Measurements

DEKRA's environmental inspection services ensure that our customers efficiently manage any risk related to the natural environment. Accurate measurement of air, soil and water pollution, noise levels and other factors helps our customers to efficiently manage any risks related to the environment. DEKRA offers extensive obligatory and voluntary inspection services – including digital and connected tools – to support your efforts to protect the environment in which you operate.

## Mandatory and Voluntary Inspection Services of Workplace Related Measurements

DEKRA offers a wide range of services to create and maintain a safe workplace. We help remediate Occupational Health and Safety (OHS) issues to ensure worker safety. Our ambient measurement services assess factors such as indoor air pollution, temperature, lighting, radiation, noise and vibration to determine any health risk to employees or negative impact on brand and products.



### Non-Destructive Testing for Sustainable Quality Management

Standard and advanced non-destructive testing (NDT) is used to examine materials and objects to locate and measure surface and subsurface defects without causing damage to the specimen. Often used for inspection and remote or online monitoring during operation, NDT technology improves lifetime management. Specific mechanized NDT solutions can be implemented to safely access tight spaces or contaminated environments to protect human health and save you time and money.

### Organizational Diagnostic, Assessment and Development

With our portfolio of tried and tested diagnostic tools we strive to transform workplace culture, ensuring reliability and strengthening performance. Aiming to optimize your organizational culture with improved safety, higher employee motivation and increased integrity along your supply chain, our consultants utilize customized surveys and specially designed assessment methodologies. Working closely with you, we enhance your safety approach through education, skills training and in-the-field coaching and guidance to bring positive change to your enterprise and the entire logistics network.

## Asset Efficiency – minimizing downtimes for maximum performance

A healthy business depends on the availability and compliance of its facilities, effective processes and a capable and healthy workforce. DEKRA offers comprehensive services to support you in implementing and maintaining strategies designed to ensure optimal performance in every aspect of your business.

### Classic Temporary Work/Direct Placement

React flexibly to changes affecting individual orders, fluctuations in staffing and additional projects. No matter how short or long the term, how extensive or how specific your employee requirements may be, we can provide you with the perfect personnel solution in almost all industries and professions. Based on a detailed professional behavioral profile analysis, we can identify the professional strengths, talents and development potential of qualified candidates.

### Process Safety Consulting and Testing

We offer impartial advice and recommendations for the risk identification, analysis, prevention and management of fires, explosions and accidental releases of chemicals into the environment. Our process safety testing services are carried out in state-of-the-art laboratories in accordance with local and international standards. We provide you the expertise you need to accurately recognize potential risk factors inherent to the handling, storing and processing of hazardous substances and to develop a robust and effective safety management system to protect your business.

### Second-Party Audits

Experienced auditors provide fast and efficient audits to help you in approving new suppliers, addressing quality issues, confirming corrective actions or performing reviews or maintenance as part of a supplier management process.

### Sustainability Advisory and Services

Focusing on sustainable practices, we evaluate policies and processes and provide solutions that improve the sustainability of our customers' processes, products and services while maintaining efficiency and productivity.

### Equipment Engineering and Operation Training

The consequences of improper operation of equipment can result in serious personal injuries or considerable property damage. DEKRA offers training to ensure employees have the appropriate qualification to operate equipment and machinery properly and safely.

## Examination of Experts for Quality Assurance, Occupational Health and Safety

Validation by an objective third party gives employees confidence in their skills, especially when it comes to the quality of your processes and the occupational safety of your employees. With our examination services you can be sure that your in-house experts can prove are truly up to the task.

## Fire Protection Management and Advisory

Our fire protection experts help you understand and address fire risk in your organization. Sharing our expertise in fire protection, we partner with customers to answer questions on fire safety management, provide customized solutions and offer on-site support through recognized advisors.

## Health, Safety and Environment (HSE) Management System

We help to ensure your ability to protect employee health and safety as well as the environment. ISO 50001 certification improves energy efficiency with the introduction of an effective energy management system, while ISO 14001 certifies your environmental management system to demonstrate sustainable operation. In order to minimize operational risks for employees, ISO 45001 formulates requirements for comprehensive, modern occupational health and safety.

## Health, Safety and Environment (HSE) Strategy and Management

Maintaining strong HSE management is the most efficient way to ensure the well-being of your staff and, by extension, the continued existence of your business. Our HSE strategy consultants help companies design a roadmap for a comprehensive HSE policy that improves safety by protecting personnel from hazardous exposures and ensuring an accident-free and healthy workspace. In addition to addressing compliance issues, our experts assist you in reducing environmental impact, creating a supportive culture and promoting performance improvements.

## Mandatory and Voluntary Control Services for New and Adapted Construction

DEKRA offers a comprehensive range of testing and validation services in the building, renovation and maintenance of your facility based on expert construction assessments and building technology. During the construction phase, DEKRA inspectors can help you implement robust strategies to reduce energy consumption. Our extensive portfolio of mandatory and voluntary inspection services provides solutions for every situation.

## Mandatory and Voluntary Inspection for Fire Protection and Ventilation Systems

The risk of fire is a huge threat for your employees and company assets. DEKRA is accredited to carry out tests before the commissioning of a building, as well as provide ongoing or recurrent inspection and testing. Our fire protection experts can work with you

to ensure that your project meets all legal fire safety requirements. During construction, we conduct inspections to detect building technology faults and defects from the earliest planning stages. Our specialists provide support in the areas of technical building equipment and electrical installations as well as ventilation systems required by the manufacturing process.

## Mandatory and Voluntary Inspection for Pressure Equipment

Based on decades of experience, DEKRA has developed a wide range of services to ensure the compliance of potentially hazardous pressurized equipments with mandatory regulations and safety standards. We are your reliable and recognized partner, providing certification of your corporate processes, quality assurance systems and safety procedures.

## Mandatory and Voluntary Inspection of Electrical Installations

Through comprehensive programs and reporting, our experts secure your electrical systems to ensure compliance, detect errors and minimize costs from the earliest planning stages. DEKRA operates as an accredited body or with specially authorized electricians to carry out mandatory initial and non-periodic inspections. We also provide accurate thermographic measurement services using infrared thermography to minimize the risk of unscheduled downtime, conserve energy, improve safety, ensure quality and save money.

## Mandatory and Voluntary Inspection Services for New and Adapted Processes, Machinery and Equipment

DEKRA experts provide comprehensive support tailored to the customer's needs in ensuring that cranes, lifting equipment and other machinery meet all necessary safety standards and regulatory obligations. Whether on-site, online or from a remote location, we help you optimize the reliability of machinery in order to reduce costly downtime, increase safety and prolong the service life of your machines and equipment. Our technical competences related to machines and industrial equipment are available at the earliest stages and throughout the life cycle of your asset.

## Mandatory and Voluntary Inspection Services of Environmental Measurements

DEKRA environmental inspection services ensure that you efficiently manage any risk related to the natural environment. Accurate measurement of air, soil and water pollution, noise levels and other factors helps our customers to efficiently manage any risks related to the environment. DEKRA offers extensive obligatory and voluntary inspection services – including digital and connected tools – to support your efforts to protect the environment in which you operate.



## Mandatory and Voluntary Inspection Services of Workplace Related Measurements

DEKRA offers a wide range of services to create and maintain a safe workplace. This ensures a healthy work environment for your employees and good working conditions, resulting in a higher efficiencies. We help remediate Occupational Health and Safety (OHS) issues to ensure worker safety. Our ambient measurement services assess factors such as indoor air pollution, temperature, lighting, radiation, noise and vibration to determine any health risk to employees or negative impact on brand and products.

## Non-Destructive Testing for Sustainable Quality Management

Standard and advanced non-destructive testing (NDT) is used to examine materials and objects to locate and measure surface and subsurface defects without causing damage to the specimen. Often done manually, sometimes done by remote or online monitoring during operations. NDT technology minimizes downtimes due to maintenance or repair to keep your business up and running. Specific mechanized NDT solutions can be implemented to safely access tight spaces or contaminated environments to protect human health and save you time and money.

## Process Safety Consulting and Testing

We offer impartial advice and recommendations for the risk identification, analysis, prevention and management of fires, explosions and accidental releases of chemicals into the environment. Our process safety testing services are carried out in state-of-the-art laboratories in accordance with local and international standards. We provide you the expertise you need to accurately recognize potential risk factors inherent to the handling, storing and processing of hazardous substances and to develop a robust and effective safety management system to protect your business.

## Quality Management Certification

Reliable quality management based on ISO 9001 ensures high-quality processes, products and services. A central feature is its risk-based approach, which identifies opportunities and risks, derives appropriate measures and evaluates their effectiveness. Certification according to ISO 9001 helps you implement a robust quality management system and efficient accompanying processes with which to achieve your desired results.

## Recruiting

DEKRA provides comprehensive recruitment services supporting you from the initial job advertisement to the final interview.

## Safety Advisory, Services and Coordination

Protect your employees from accidents and other hazards in the workplace and minimize the overall effort required to implement your occupational safety measures by engaging with our safety specialists. Our experts help you reach your safety goals with a range of tailored services including advisory, risk assessments, coaching and instructions/ training, due diligence or on-site support. We provide coordination and safety services, relating to all project phases, for construction sites and during shutdowns and turnarounds, and companies working in industries in which hazardous substances are used are invited to benefit from our expertise in proper handling, storage and transport.

## Second-Party Audits

Experienced auditors provide fast and efficient audits to help you in approving new suppliers, addressing quality issues, confirming corrective actions or performing reviews or maintenance as part of a supplier management process.

# Industry 4.0 – digital solutions to implement smart production and supply chains

Successful companies make use of innovative digitized processes to support organizational operations from administrative tasks to supply chain monitoring and digital manufacturing. DEKRA experts can help you develop and maintain smart solutions to strengthen your digital transformation and keep you competitive edge in the interconnected environment of international business.

## Chief Information Security Officer (CISO) Training

This course provides a well-founded overview of the various information security standards needed to make tactical and operational decisions as a Chief Information Security Officer (CISO). It provides insights into legal and personnel aspects and how to safely deal with outsourcing projects.

## Classic Temporary Work/Direct Placement

React flexibly to changes affecting individual orders, fluctuations in staffing and additional projects. No matter how short or long the term, how extensive or how specific your employee requirements may be, we can provide you with the perfect personnel solution in almost all industries and professions. Based on a detailed professional behavioral profile analysis, we can identify the professional strengths, talents and development potential of qualified candidates.

## Cyber Security and Data Protection

With the continual rise in cybercrime and data security breaches, IT security has become a key challenge for all technology users today. From network security to penetration testing and risk assessment, our 360° services are based on a comprehensive analysis of your IT processes. Working from that basis, we can help design and implement security systems, provide an information security officer or use behavioral analysis to optimize your organization's cyber security, including Internet-of-things (IoT) and Machine-to-Machine (M2M) networks.

## Digital Health, Safety and Environment (HSE) Solutions

How we seek and use information about safety is critical to our ability to achieve the desired results in safety. DEKRA delivers innovative IT-solutions and platforms which enable organizations to manage, control and understand their data and uncover relevant trends and insights in order to identify areas of improvement and risk minimization. Our data collection and analytics solutions pair the experience and knowledge of our research professionals with proven tools and methodologies.

## Examination of Experts for IT and Cyber Security

To inspire trust among existing customers and attract potential new customers, it is essential to ensure information security and to protect IT systems, components and processes. Validation by an objective third party gives employees confidence in their skills and customers confidence that they have chosen the right partner. Accredited DEKRA personnel certification services cover a wide range of requirements generally recognized on the international stage.

## Health, Safety and Environment (HSE) Strategy and Management

Maintaining strong HSE management is the most efficient way to ensure the well-being of your staff and, by extension, the continued existence of your business. Our HSE strategy consultants help companies design a roadmap for a comprehensive HSE policy that improves safety by protecting personnel from hazardous exposures and ensuring an accident-free and healthy workspace. In addition to addressing compliance issues, our experts assist you in reducing environmental impact, creating a supportive culture and promoting performance improvements.

## Process Safety and Functional Safety Consulting

DEKRA provides impartial process safety advice and recognized expertise for the risk identification, analysis, prevention and management of fires, explosions and accidental releases of chemicals into the environment. Most industrial processes rely on functional safety strategies to prevent health and environmental hazards and protect assets and facilities. We deploy a range of tools and methodologies to assess and verify the safety integrity levels (SIL) of your Safety Instrumented System (SIS). Our DEKRA experts provide comprehensive support throughout the Safety Lifecycle and Safety Instrumented Functions (SIFs) evaluation, SIL Verification, Safety Requirements Specification (SRS) and Functional Safety Assessment (FSA).

## Recruiting

DEKRA provides comprehensive recruitment services supporting you from the initial job advertisement to the final interview.

## Remote and/or Online Monitoring and Digital Optimization Services

DEKRA offers remote and online sensor monitoring to complement a comprehensive range of inspection services providing information about trends and highlighting potential issues. Our experts can help you implement VALTO360°, an information management solution that virtualizes your operating and production environments into 360° interactive panoramas to facilitate oversight at any time from any location. This can be connected to IoT monitoring in order to create dashboards and facilitate the control over the assets. These critical services help to prevent downtime, increase efficiency and save you money.



## Complementary Services – part of a well-rounded production strategy

DEKRA experts can provide a number of supplemental services to support you in your efforts to develop and maintain maximum capacity for optimal production and a robust corporate environment.

### Business Resilience Impact Assessment (BRIA)

We help you identify problems and implement solutions to improve the systems and processes you rely on to continue operations after unforeseeable events not under your control. Now more than ever, it is vital that every business, regardless of industry, location or size be able to reassure stakeholders of its resilience and ability to continue to operate in the future. Our multilevel approach assists you in developing and maintaining effective resilience strategies in three levels.

### Chemical Safety Advisory

Maintaining compliance with testing protocols, reporting obligations, product labeling, documentation requirements and legislative initiatives such as REACH can be an overwhelming task for both manufacturers and importers. Our chemical safety advisory team specializes in supporting companies seeking to comply with the hazardous substances regulatory framework with testing, classification, management and other services.

### Expediting, Shop and Vendor Inspection of the Supply Chain

Acquiring new equipment and machinery can be time-consuming costly and risky. We carry out inspection and expediting services on your supplier's premises, verifying the quality of manufactured products or equipment and the reliability of delivery times.

### Health and Medical Advisory, Services and Examinations

With the aim of helping you maintain a healthy workforce and leadership, we assess physical, ergonomic and psychological risks and offer practical solutions. Our practices enhance employee

well-being and create a safe, human-centered workplace where motivation thrives and human factors are respected.

### Human Performance Reliability and Mental Health

While advances in technology and their business applications receive ample attention, new discoveries in neuroscience that help us understand the human brain could also have a major impact on the workplace. Learning how to recognize and manage stress among your employees and how to support good decision-making, for example, can both lead to a more motivated and productive workforce. Through targeted assessments, recommendations and consultations, we help you maximize every employee's potential.

### Leadership Diagnostic, Assessment and Development

Effective leadership is a decisive factor in your company's success, influencing all aspects of operations and culture. Our consultants have developed an array of tools to support the development of valuable leadership skills. The DEKRA Leadership Diagnostic Instrument (LDI) and Leader Care Profile assessment measure the strengths and weaknesses of leaders in your company. SafeAlign™ and our Leading Safety Performance™ solutions, as well as our training program on understanding major accident hazards focus on how strong leadership can be used to optimize safety standards and practices in your business. Individualized coaching is also available as part of our comprehensive approach to helping leaders reach their ultimate potential.

## Process Safety Competence Development

The DEKRA Process Safety Academy offers competence development programs in all areas of process safety. We incorporate various learning methodologies, including public courses and events, tailored in-house courses, e-learning and computer-based training and skills development programs.

## Supply Chain Audits

Our comprehensive audits let you evaluate and ensure ethical, environmental and social compliance as well as process integrity and security throughout the entire supply chain. Our services include initial supplier audits and continuous monitoring, as well as helping you decipher international, national and local regulatory requirements.

## Workforce Diagnostic, Assessment and Development

DEKRA has designed services to specifically evaluate your safety culture and engage your workforce at every level. Our experienced specialists help you implement behavior-based strategies that drive transformational change and enhance overall performance.

*Due to impartiality and independence requirements of regulatory authorities, services may have to be performed by different, mutually independently operating DEKRA units to ensure impartiality.*

### DEKRA

Handwerkstrasse 15  
70565 Stuttgart

Phone +49.711.7861-0  
Fax +49.711.7861-2240  
info@dekra.com

[www.dekra.com](http://www.dekra.com)



On the safe side.