KOREA & GLOBAL CERTIFICATION





## **Korea Global Certification Services**

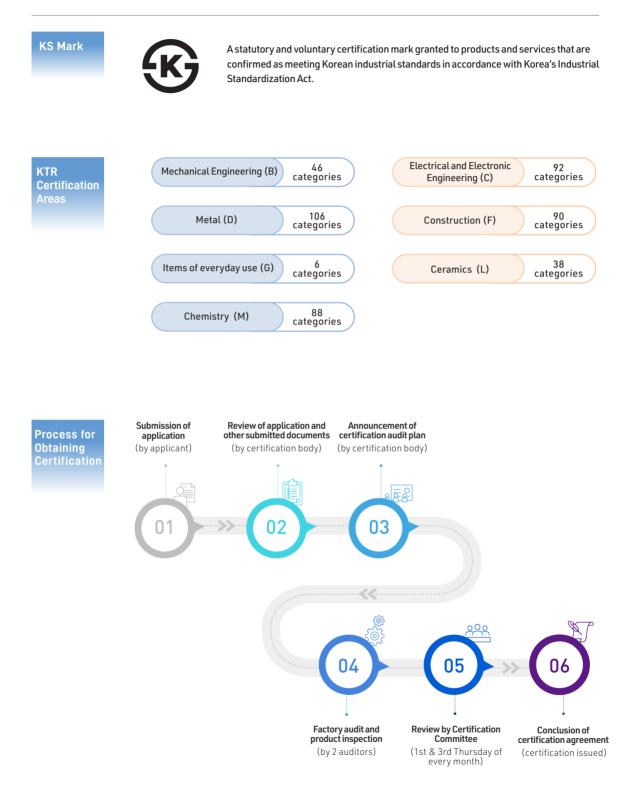
KTR provides not only Korean certification services such as KS and KC, but also international product testing, certification, and licensing services for Europe, America, Eurasia, China, Japan, Latin America, Southeast Asia, and elsewhere.

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With a global partner network connecting 180 overseas organizations in 40 countries, KTR is able to support businesses with their international regulatory and compliance needs. Korea Industrial Standards

### KS Certification 🔊

KTR's state-of-the-art testing and certification facilities ensure fair and impartial KS certification services. As a designated KS certification institute pursuant to the Industrial Standardization Act of Korea, KTR performs KS services for 466 categories in seven major sectors: mechanical engineering, electrical and electronic engineering, metals, chemistry, construction, items of everyday use, and ceramics.



### KC Certification for Products 🥎

The KC system is a compulsory certification scheme implemented in accordance with the Electric Appliances and Household Safety Control Act, which serves to ensure that the electrical appliances and consumer products found in our homes are safe to use, with KC certification categorized by level of risk: Safety Certification; Safety Confirmation; Supplier Declaration of Conformity.

#### KTR Certification Areas

#### Electrical Appliances (Safety Certification, Safety Confirmation)

Wires and power cords, Electrical switches, Accessories and connecting parts for electrical equipment, Isolation transformers, Electrical equipment, Power tools, Equipment for audio/video applications, Information and communications equipment, office equipment, Lighting equipment, Electrical storage device components

#### **Consumer Products**

Category	Items Certified by KTR
Safety Certification	recycled vehicle tires, pressure pots and cookers for home use, water toys
Safety Confirmation	batteries (excluding rechargeable), vehicle tires, beauty equipment for home use, indoor flooring
Supplier Declaration of Conformity	Specified furniture (dressers/filing cabinets over 762mm in height), double eyelid tape, eyelash curlers

#### ① Process for Obtaining Safety Certification



#### 2 Process for Obtaining Safety Confirmation



#### ③ Process for Obtaining Supplier Declaration of Conformity



Electrical Appliance KC Certification Inquiries KTR Electrical Appliances Safety Certification Center +82) 2-2164-0130, 0132, 0133 Consumer Product KC Certification Inquiries KTR Consumer Product Safety Certification Center +82) 2-2164-1424, 1437 KC Certification for Children's Products 🔊

To prevent accidents and ensure that children are safe, KTR verifies the safety of children's products in accordance with the Special Act on the Safety of Children's Products.

	Children's Products		
tification as	Category	Items Certified by KTR	
	Safety Certification	Water toys and BB guns for children	
	Safety Confirmation	Toys, synthetic resin products , bunk beds, tricycles for toddlers, baby highchairs, school supplies, strollers, baby cribs, heating packs for children, baby carriers, textile products for babies, baby walkers	
	Supplier Declaration of Conformity	Furniture, eyeglass frames, goggles, umbrellas and parasols, accessories, and other children's products	

### Consumer Chemical Products Subject to Safety Confirmation



C

To ensure that chemical products commonly found in the home are safe for use. Their safety is verified in accordance with the Consumer Chemical Products and Biocides Safety Act.

#### Tested Products

KTR Cert Area

> subject to confirmation (To be submitted to Korea Environmental Industry & Technology Institute [KEITI] after testing)

Products

Cleaning products (cleaning agents, removers), detergents (laundry detergent, bleach, fabric softener), coating products (glossy coating agents, coating agents with a specific purpose, anti-rust agents, ironing aids, lubricants), adhesives and bonding products (adhesives, sealants), fragrance/deodorizing products (air fresheners, deodorants), dyes/painting products (material dyes, material inks), printing products (printing ink, toner, red stamping ink and ink pads, correction tape and correction fluid), beauty products (beauty adhesives, tattoo dye), sterilization products (disinfectants, algaecides), insecticides (insect repellents), preservatives (wood preservatives, preservatives treated filters), other (candles, dehumidifiers, artificial snow sprays, fog fluids)



Children's Product KC Certification Inquiries KTR Consumer Product Safety Certification Center +82) 2-2164-1424, 1437 Inquiries about Household Chemical Products Subject to Safety Certification KTR Consumer Product Safety Certification Center +82) 2-2164-1412, 1436

### GS (Good Software) GS Certification Certification for Excellent Software



KTR has been designated by the Ministry of Science and ICT to grant certifications for software meeting the quality standards outlined in the relevant laws.



# Other KTR Product Certification Services (Voluntary)



SUTE	The S-Mark is recognized by the Korea Accreditation System (KAS) and certifies the functionality and safety of functional products
S-Mark	<b>S-Mark testing and certification areas:</b> sterilization products, anti-bacterial products, low toxicity products, non- irritating products, deodorizing products, other functional products
_	The V-Check Mark is recognized by the KAS and certifies the safety, performance, and reliability of electrical and electronic products
V-Check	V-Check Mark testing and certification areas : - Computers and peripheral devices, communication and broadcasting equipment, video and audio equipment
	<ul> <li>Power converter products, insulated wire and cable products, light bulbs and lighting products, household appliances and other electrical equipment</li> </ul>
	The TR Mark certifies that manufacturers' functional and convergent products meet the requisite 'Function', 'Convergence', or 'Safety' module standards for such products, using KTR's rigorous inspection and evaluation standards for certification.
TR Mark	TR Mark testing and certification areas : electrical- and electronics-related products, metal-related products, chemical-related products, other products
	The Q Mark certifies a company's quality management system and product quality using inspection standards taking into account the unique characteristics of such products.
Q Mark	<b>Q Mark testing and certification areas:</b> chemical products, civil engineering and construction materials, ceramics, products for the metals and non-destructive testing fields, other related products
COSMOS	The COSMOS Mark is recognized by the KAS and certifies that cosmetics and related raw materials meet the international standard established by COSMOS-standard AISBL for organic and natural cosmetic products.
COSMOS	<b>COSMOS certification areas:</b> Cosmos Organic (organic cosmetics), Cosmos Natural (natural cosmetics), Cosmos Certified (cosmetics ingredients)
	This mark verifies that a product meets the standards for natural and organic cosmetics and organic ingredients set by the Ministry of Food and Drug Safety (MFDS).
Natural/Organic Cosmetics ertification Marks	MFDS-certified cosmetics areas : organic cosmetics, natural cosmetics, organic ingredients

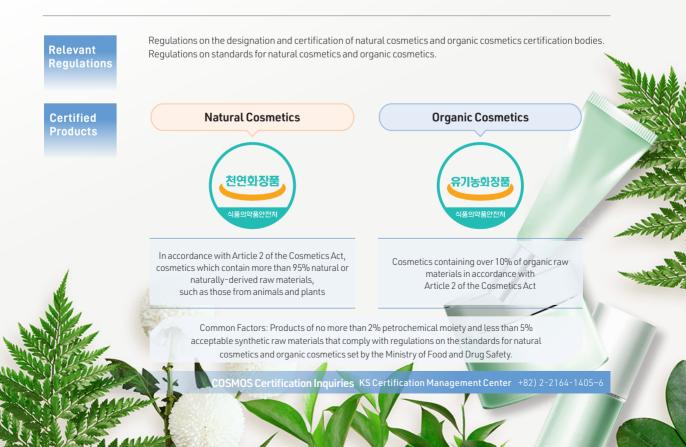
KTR Electrical Appliances Safety Certification Center +82) 2-2164-1403 KTR KS Certification Management Center +82) 2-2164-1405~6

### **COSMOS** Certification



### Certified Organic and Natural Cosmetics by the Ministry of Food and Drug Safety

KTR was designated as Korea's first certification body for natural cosmetics and organic cosmetics by the Ministry of Food and Drug Safety, and provides cosmetics certification and approval services for raw materials.





### 🥂 Overseas Licenses for Medical Devices

Countries operate individual pre-licensing approval systems essential for consumer safety to ensure the correct handling and distribution of medical devices. To export medical devices, businesses need to undergo the relevant country's medical device safety and performance conformity assessments, such as technical documentation or manufacturing quality system reviews.

KTR supports all procedures related to medical device registration, from appointing a local legal representative to providing guidance on technical documents and completing licensing.

- European CE MDR, Medical Device Certification, Transport, Validation, MDSAP, ISO 13485
- US FDA medical device registration and approval
- China NMPA medical device licensing
- Russian medical device licensing
- Central and South American medical device licensing (Brazil, Argentina, Colombia, Mexico, Bolivia, etc.)
- Southeast Asia medical device licensing (Vietnam, Thailand, Indonesia, Malaysia, the Philippines, Singapore, etc.)

Certification and Licensing Approval Process



Russia +82) 2-2164-0024 | kfirouza@ktr.or.kr

#### **Global Business Center**

USA (FDA), Latin America, Southeast Asia +82) 2-2164-0028 | hs@ktr.or.kr China (NMPA) +82) 2-2164-0042 | ozyunju@ktr.or.kr

### m Overseas Licenses for Cosmetics

Cosmetics registration systems differ by country in terms of hygiene permits, certification and reporting. Registration is divided into cases where the domestic manufacturer, or responsible distributor, is responsible for applying for certification, and cases where the local importer must instead apply. This makes it necessary to check whether an importer has already applied for an item's certification before proceeding. KTR provides a total certification one-stop service, from sourcing local responsible companies (European RPs, Chinese domestic liability companies, etc.) to technical document reviews, test submissions, and label translation.



### **Overseas Certification Services for Electrical and** Electronic Products General Inquiries : +82-2-2164-0020

#### Europe (CE)

Electrical and electronic products exported to the 27 European Union countries and 4 European Free Trade Association countries need to undergo testing on safety, electromagnetic waves, wireless communication, to check whether hazardous substances have been restricted, and to complete declaration of conformity and receive a CE Mark.

As an internationally accredited testing institute capable of handling over 3,500 tests in Korea, from electrical safety, EMC, wireless communication, and hazardous substance use restriction tests, to the issuance of a declaration of conformity as proof of conformance with the various directives applied to electrical and electronic products, KTR provides one-stop services for exporting products to Europe.

#### Asia (China CCC, Japan PSE, Vietnam CR, Middle East GCC, etc.)

In Asia, each country has separate electrical and electronic certification. Voluntary or compulsory certification evaluation procedures must be carried out to comply with safety, electromagnetic waves, and wireless communication regulations.

China: KTR is the only testing and certification institute in Korea to have a Chinese certification (CCC) auditor, and it is possible to apply for certification using one of our three local branches.

Vietnam : KTR has a large number of CR Mark inspectors who conduct factory inspections, product inspections, and tests. Middle East: KTR is a GCC certification body designated by the GSO and provides one-stop certification services, from testing to certification in order to export to the seven GCC countries.

#### Latin America (Mexico NOM, Brazil INMETRO, Colombia RETIQ, etc.)

Electrical and electronic products must be tested and certified, after checking whether they are subject to safety, electromagnetic waves, wireless communication, and energy efficiency regulations, based on country and item.

The KTR America (Mexico) branch supports rapid certification acquisition and utilizes KTR's test result reports, reducing the time required and cost for certification.

### USA (NRTL, FCC, DLC)

In order to export electrical and electronic products to the United States, testing and certification must be carried out in consideration of related regulations: NRTL (electrical safety), FCC (electromagnetic waves), DLC (lighting equipment energy efficiency).

KTR operates the only US NVLAP-accredited testing laboratory in Korea, an LED energy efficiency performance testing institute, and provides a one-stop service for electrical safety, electromagnetic wave, and energy performance testing for exports to the U.S.



#### International IECEE (CB/CBTL)

IECEE-CB certification is a system which mutually recognizes test results from among the 54 CB member countries. Through CB certification, compulsory certification for each participating country (e.g., European CE certification, Middle East GCC certification, etc.) can be obtained after just one single test.



- The factory inspection, certificate issuance, and follow-up management steps are only conducted if necessary.

As a certification body for 16 product groups, KTR provides testing and certification services for 704 certification standards, and provides the necessary testing and certification services to export a product to the 54 member countries with one single test.

KTR Global Business Center Europe, America, China, Japan, Middle East +82) 2-2164-1496 | junsung.lee@ktr.or.kr Vietnam, Latin America, International +82) 2-2164-0041 | hrsunks@ktr.or.kr

### m Batteries & Secondary Batteries

KTR is a CB testing and certification body (NCB/CBTL) in accordance with the IECEE-CB scheme, and performs overseas certification tests and certifications for secondary batteries through collaboration with testing laboratories around the world.

IECEE-CB certification, Japan PSE, China CQC, Taiwan BSMI, India BIS, Vietnam MIC DoC, UN DoT, etc.

KTR Global Business Center +82) 2-2164-0028 hs@ktr.or.kr

### Overseas Certification Services for Building Materials, Pressure Equipment, and Industrial Fields

#### Europe CE, UK UKCA

To export building materials, pressure equipment, and industrial products to Europe, related certifications such as CE and UKCA are required. KTR provides fast and convenient services through agreements with many European certification bodies and support from KTR Europe.

- Construction materials (CPR): Tests using domestic and overseas test institutes, and conducts factory inspections directly using domestic auditors (Certified items: road facilities, bridge supports, concrete reinforcements, paint, bolts, steel structures, welding rods, interior materials, windows and doors, insulation materials, wall materials, floor materials, roof materials, leakage prevention materials, tiles, adhesives, etc.)
- Pressure equipment (PED)/Welding: Tests using domestic and overseas test institutes, and conducts factory inspections directly using domestic auditors
- Personal Protective Equipment (PPE): Certification guidance and testing using domestic and overseas testing institutes, practical support for manufacturers awaiting factory inspection
- Machine (MD) Explosion-Proof (ATEX): Certification guidance, tests using domestic and overseas test institutes, practical support for manufacturers awaiting factory inspection
- Toy (TOY): Certification guidance and testing using domestic and overseas testing institutes

#### US

Various certifications are required for the export of building materials and industrial products to the United States. KTR performs faster and more convenient certification tasks through cooperation with a number of certification agencies in the United States and KTR America.

- Building materials (Floor Score, EPD/HPD, IGCC, AISC) : Certification guidance and testing using domestic and overseas testing institutes, practical support for manufacturers awaiting factory inspection
- Children's products (CPSIA) : Certification guidance and testing making use of domestic and overseas testing institutes

KTR Global Certification Center +82) 2-2164-1439 | donghyeokwoo@ktr.or.kr

### m Russia and CIS Countries (GOST·EAC)

KTR provides CIS certification (the national standard for Russia, Kazakhstan, Uzbekistan, etc.) and EAC certification (an integrated certification system for Russia, Kazakhstan, Belarus, Kyrgyzstan, and Armenia) services. KTR supports Korean companies from every industry to acquire Russian and CIS country certifications through agreements with representative certification testing institutes in Russia and Central Asia.

KTR can conduct factory inspections and follow-up inspections through our certified Russian experts. In addition, we provide an information service for identifying and responding to trends in the EAC certification system, which is seeing gradual revision and changes.

Business Range Building materials, electrical and electronic equipment, pressure equipment, medical equipment, machinery, chemicals, cosmetics, food, measuring instruments, etc.

KTR Global Certification Center EAC and CIS Certification +82) 2-2164-0024 | kfirouza@ktr.or.kr

### m JIS (Japanese Industrial Standard)

JIS is the abbreviation for Japanese Industrial Standard, a Japanese national standard established in accordance with the Industrial Standardization Act of Japan. KTR was designated as a new Japanese JIS mark registration certification body in 2007, and performs certification services for a total of 13 product groups.

Certification Areas Civil Engineering & Construction (A), General Machinery (B), Electrical & Electronics (C), Automobiles (D), Steel (G), Nonferrous Metals (H), Chemicals (K), Mines (M), Pulp & Paper (P), Ceramics (R), Daily Necessities (S), Medical Safety Equipment (T), Others (Z)

KTR KS Certification Management Center +82) 2-2164-1449 +82) 2-2092-1487

With a global partner network connecting 180 overseas organizations in 40 countries, KTR is able to support businesses with their international regulatory and compliance needs



Japan National Standard Certification System In accordance with the Industrial Standardization Act of Japan, KTR provides JIS certification in the industrial sector by utilizing its status as a JIS Mark-approved inspection agency



European Union Integrated Standards Compulsory Certification System

KTR provides CE testing and certification services in the industrial sector through mutual agreements with European certification bodies



China Safety and Quality Compulsory Certification System

KTR provides CCC testing and certification services in the industrial sector via its network with Chinese certification bodies



Certification System of the Customs Union of Russia, Kazakhstan, Belarus, Armenia, and Kyrgyzstan



**Brazil Industrial Quality Compulsory Certification** System

TR provides INMETRO testing and certification services through mutual agreements with Brazilian certification agencies



Japan Compulsory Certification System for **Electrical and Electronic Products** 

KTR provides PSE (Circle) testing services for the electrical and electronic product fields



This Mark that Guarantees Safety and Quality in Germany, which is similar to Korea's KS Mark

By collaborating with German certification agencies, KTR reduces the required time to achieve GS certification and financially supports Korean manufacturers to gain GS certification with support from the Ministry of SMEs and local governments.



#### Mexico Safety and Quality Compulsory Certification System

KTR provides NOM related testing and certification in the industrial and product fields through a mutual agreement with the Mexican certification body



#### Malaysia Electrical and Electronic Product Certification System

KTR provides certification acquisition services through its network with the Malaysian certification body



US Eco-Friendly Flooring Certification System Provides certification acquisition services through cooperation with U.S. certification agencies



US Testing and Certification Services in Accordance with UL standards for the Export of Electrical and Electronic Products to the US and Canada



**US Electrical and Communication Equipment** Certification System

KTR provides FCC testing and approval support services as an accredited US electromagnetic communications approval agency



#### US Energy Efficiency Program

KTR provides industrial sector testing services as a US EPA Energy Star accredited testing institute



Quality Reliability (Excellence) for Large-Capacity Electrical Machines and Components in Netherlands

KTR provides support for testing and certification, and serves as a factory inspection agency



Japanese Voluntary Certification for Regulating Interference Waves Generated by Information



Processing and Technology Devices



KTR provides testing and certification services in various industries



German Certification Mark for Electric and Electronic Products, Medical Devices, and Products under the Product Safety Act

KTR provides testing and certification support



Product Safety and Electromagnetic Wave Certification System in Australia

KTR provides safety and electromagnetic compatibility testing services for electrical and electronic products



Vietnamese Product Certification System

KTR provides support for certification acquisition, such as testing and factory inspections, in cooperation with Vietnamese certification agencies



Compulsory Certification System for the 7 countries in the Middle East: Saudi Arabia, United Arab Emirates, Bahrain, Oman, Yemen, Kuwait, Qatar KTR provides certification services through the designated certification bodies



**US Insulation Glass Certification System** 

KTR provides certification acquisition services through cooperation with the US certification body

Certification

KTR enhances the reliability of manufacturers' export products through special overseas certifications, other standard certifications, and quality test reports.



Taking Action Against Climate Change

KTR is a global greenhouse gas feasibility testing and certification institution as well as a domestic emissions trading system validation institution recognized by the UN.

### UNFCCC CDM (SDM) Feasibility Assessment and Inspection/Certification

The CDM (Clean Development Mechanism) is a system implemented in accordance with Article 12 of the Kyoto Protocol of the United Nations Framework Convention on Climate Change. It aims to prevent global warming by supporting the sustainable development of developing countries and enabling Annex I parties to effectively fulfill the greenhouse gas reduction obligations of non-Annex I parties. KTR was approved as a CDM Designated Operating Entity (DOE) at the 66th meeting of the UN's CDM Executive Board (EB) in March 2012 and is conducting feasibility evaluation and verification work.

Certification Areas Energy industry (renewable energy, energy demand, manufacturing industry, chemical industry, F-gas fugitive emissions, waste)

KTR Climate Change Action Center +82) 2-2164-1452 | jung@ktr.or.kr

### Verification of Greenhouse Gas & Energy Target Management and Emissions Trading Systems

The greenhouse gas and energy target management and emissions trading systems were established in accordance with the Framework Act on Low Carbon Green Growth, guidelines for greenhouse gas and energy target management operations, and the Act on the Allocation and Trading of Greenhouse Gas Emission Permits. KTR was designated as a verification agency for greenhouse gas emissions trading systems in May 2011 by the Ministry of Environment, and has verification auditors with CDM examination experience in various fields.

Certification Areas General (energy, buildings), chemical, minerals, steel, metals, waste sectors

KTR Climate Change Action Center +82) 2-2164-1456 | enterhm@ktr.or.kr

# Carbon Offsetting and Reduction Scheme for International Aviation (CORSIA) Verification



CORSIA is a system that freezes international aviation greenhouse gas emissions at the 2019 level and purchases and offsets excess emissions rights. KTR was designated as a CORSIA verification agency in April 2021 by the Ministry of Land, Infrastructure and Transport, and performs verification tasks for airlines operating domestic and international flights.

KTR Climate Change Action Center +82) 2-2164-1454 | jschoi@ktr.or.kr

### **International Footprint Certification**



In accordance with international audit standards (PAS 2050, ISO 14046), professional auditors perform the international carbon and water footprint certification required for exports. KTR has been designated as a private international footprint certification agency by the Korea Institute of Industrial Technology and performs carbon footprint and water footprint certification.

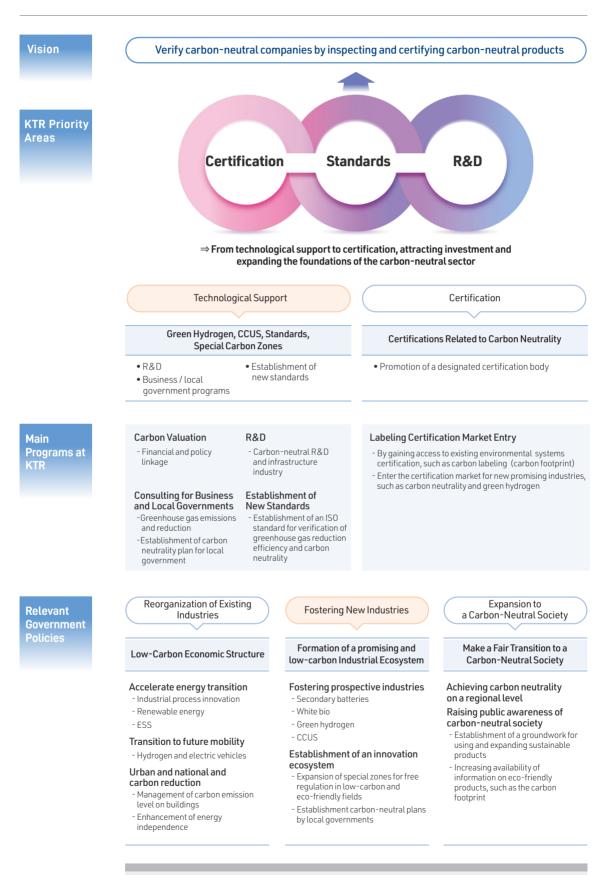
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To achieve the goal of carbon neutrality, KTR supports carbon-neutral R&D and infrastructure programs, carbon valuation, and carbon-neutral certifications and standards.





KTR has joined forces with the Korean Agency for Technology and Standards to monitor developments and other information related to overseas and domestic technology regulations, and conducts various activities to improve unreasonable regulations.

### Information Provision on Overseas Technology Regulation

When exporting products overseas, businesses need clear access to comprehensive, accurate and up-to-date information on technology regulations, such as licensing, testing, and certification. KTR conducts investigations and analyzes overseas technology regulations, seeks out the newest updates and imminent future changes to regulations, and provides relevant information to companies.



KTR Technical Regulation Affairs Center +82) 2-2164-0036

### **Overseas Technology Regulation Grievance Resolution**

In order to resolve grievances related to overseas technology regulations experienced by companies, KTR supports national response mechanisms such as the WTO TBT Committee, and is taking the lead in resolving unreasonable overseas technology regulations.

What Is Unreasonable Technology Regulation?



KTR works with the Korean Agency for Technology and Standards(KATS) to develop diplomatic response strategies and industry countermeasures against unreasonable foreign technology regulations.



### Streamlining of Regulations for the Domestic Technology Lifecycle

KTR is supporting the streamlining of Korean technology regulations by monitoring the technical standards of various government departments and the entire conformity assessment cycle, including tests, inspections, and certifications.

Resolution Areas on Korean Technology Regulation Excessive technology regulations that are beyond the level of original purpose
 Unreasonable technology regulations which lack scientific basis
 Technology regulations which have not kept up with technological developments
 Cases where appropriate regulations do not exist for a new product

KTR Technical Regulation Affairs Center +82) 2-2164-0037

### **KTR Business Support Programs**

KTR runs a variety of business support programs to strengthen corporations' competitiveness. For more information, check the notices section of the KTR website. (www.ktr.or.kr)

#### **Research-Based Utilization Plus Program**

Supports small and medium-sized companies to share institute-owned research equipment Eligibility: Small and medium-sized enterprises as defined in Article 2 of the Micro and Small Enterprises Act Application Method and Fee: Online, voucher-based fee support for using equipment (up to KRW 70mn)

#### Industry-Academia-Research Collaboration Program

Supporting corporate technology development by utilizing the excellent research infrastructure (human resources, equipment, etc.) Eligibility: Small and medium-sized enterprises as defined in Article 2 of the Micro and Small Enterprises Act Support Details: Supports joint technology development for SMEs that are seeking to collaborate, such as joint technology development and technology transfers

#### **Conditional Purchase New Product Development Program**

Supports product development costs for small and medium-sized enterprises under the condition that domestic and foreign buyers purchase related products or services

Eligibility: Companies (institutions) that have submitted and issued a voluntary purchase agreement and purchase contract Support Amount: Within the government contribution range for purchase-linked type (KRW 500mn); joint investment type (KRW 1.2bn)

#### **Overseas Certification Acquisition Support Program**

Supports the cost of acquiring overseas certification for small and medium-sized enterprises that have been unable to acquire related certification Eligibility: Small and medium-sized enterprises as defined in Article 2 of the Micro and Small Enterprises Act Support amount: A portion (50%-70%) of the costs of acquiring overseas certification (451 types)

### **KTR HRD & Education Programs**

#### National Human Resources Development Consortium Program (Strategic Type)

KTR is seeking to strengthen the export competitiveness of companies through education programs to nurture specialists who can proactively respond to changing standards and technology regulations.

Eligibility: Employees of companies which have signed an agreement with KTR



#### **KOLAS Mandatory Education**

A mandatory education program for the accreditation and operation of KOLAS-accredited institutions Eligibility: Workers from authorized institutions (persons responsible for quality and technology affairs, internal examiners, test and inspection workers, etc.)

#### Ministry of Food and Drug Safety Compulsory Education

A compulsory education program for compliance with the Act on Testing and Inspection in the Food and Drug Industry Eligibility: Persons responsible for tests, inspections, persons responsible for quality assurance, inspectors, etc. (food, livestock, pharmaceuticals, cosmetics, medical devices, etc.)

#### **Overseas Certification Acquisition Support Program Training**

Additional points are awarded when applying for a project that supports a portion of the cost (50%-70%) for acquiring overseas certification

Eligibility: Small and medium-sized enterprises as defined in Article 2 of the Micro and Small Enterprises Act

Education Inquiries KTR Education Consulting Center +82) 1577-0091 (ext. 4)

Inquiries about Business

KTR Industry-Academy-Research-Education Team +82-2-2164-0161~9

**KTR Export Certification** AssistanceCenter +82-2-2164-0172~8

Support Programs

### **KTR** KOREA TESTING & RESEARCH INSTITUTE

Headquarters : Korea Testing & Research Institute, 98 Gyoyugwon-ro, Gwacheon-si, Gyeonggi-do, Republic of Korea TEL +82-2-2164-0011 FAX +82-2-2634-1008 Q&A 1577-0091 (within Korea) www.ktr.or.kr

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