

Annual Report 2016

KOSHA

Life Respect
Communication & Cooperation
Professionalism



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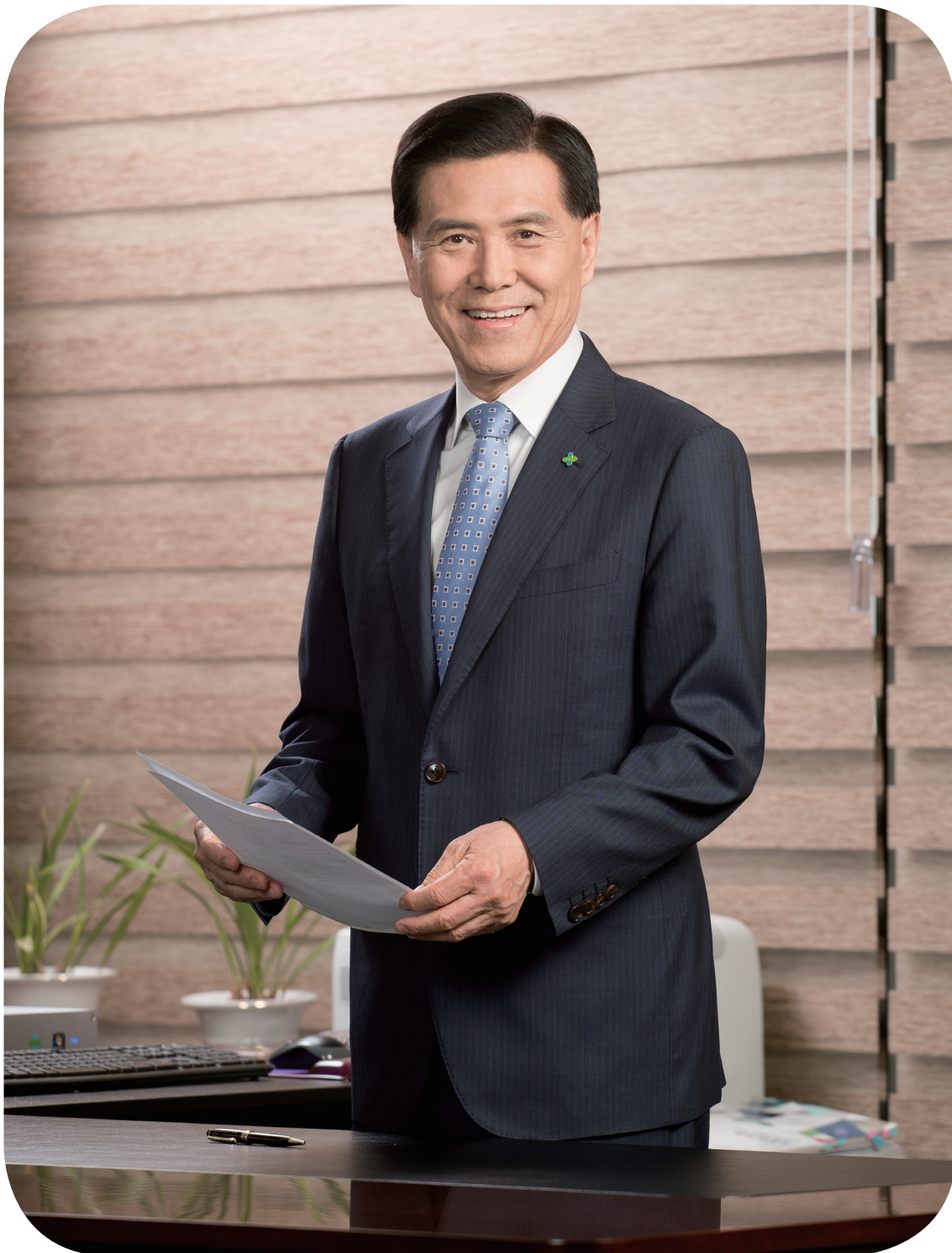


*Happy Partner of Workers,
Top Leader in Occupational Accident Prevention*

- Reach 0.3‰ level of fatality rate per 10,000 workers by 2019



Valuing safety & health Becoming a global leading organization



It is undisputed that nowadays, safety and health takes priority to productivity at work in most countries. Korea is one of those countries that are keeping up with the trend and make much effort in promotion of preventive culture.

Korea Occupational Safety and Health Agency has done its best to protect the lives and health of workers for the past 30 years. As a result, KOSHA has become the workers' partner securing the happiness of workers and the best specialized institution for occupational accident prevention in Korea.

Recently, the 4th industrial revolution, which is epitomized by integration of ICT and science technology, is changing not only our workplace but everyday life in general in a dramatic pace. This kind of changes will make our future like nothing we have experienced and changes in the safety and health environment of workplace will take place very rapidly as the result.

In order to meet the challenges along with time changes, we will make utmost effort to become a leading institution by anticipating and identifying upcoming future risks. Moreover, we will make continuous efforts to maintain world class expertise, especially to respond proactively to new safety and health issues.

In the meantime, KOSHA will establish safety and health cooperation system between the government, companies, workers and citizens and make OSH issues the national agenda so that safety and health becomes part of our daily routine.

KOSHA adopted 'Seoul Declaration on Occupational Safety and Health at Work,' the first international charter of occupational safety and health, along with International Labour Organization (ILO) and International Social Security Association (ISSA) in 2008. In 2015, we successfully hosted the 31st International Congress on Occupational Health. We have been making efforts to disseminate culture of prevention all around the world as the chair institution of 'International Section for a Culture of Prevention' in ISSA. We will continue to devote our full attention to become the happy partner of workers as well as the leading organization in safety and health.

Furthermore, we will lead the dissemination of the culture of prevention and the protection of global workers' lives and health by expanding our research on OSH policies and systems and sharing the result with the global community.

In this context, we have collected our key safety and health activities for the past year. We sincerely hope that this annual report can help promotion of safe workplace, healthy worker, and happiness in the global community. Thank you.

Lee, Young Soon

Dr. Lee Young Soon

President

Korea Occupational Safety and Health Agency



안전
을
먼저 생각하자



1

INTRODUCTION



KOSHA, 30 Years and Beyond





Mission

We protect workers' lives and health



Vision

Happy Partner of Workers, Top Leader in Occupational Accident Prevention

– Reach 0.3‰ level of fatality rate per 10,000 workers by 2019



Purpose of Foundation

Contribute to national economic development by facilitating safe and healthy working environment for workers and promoting employers to make efforts for accident prevention



Major Functions

- OSH diagnosis and provision of technical · financial assistance
- OSH educational training and development · distribution of informative materials
- R&D and distribution of occupational accident prevention techniques and skills
- International cooperation for occupational safety and health issues
- Government entrust services on occupational safety and health issues



Management Policy

- **World Class Competencies:** Implement occupational accident prevention activities with world class competencies
- **Harmonized Organizational Culture:** Achieve organizational objectives based on the bright and spirited open culture
- **Performance based on Trust:** Form consensus between employers and employees on accident prevention
- **Safety and Health Value:** Spread the culture of safety and health and share its importance and necessity





산업재해예방
안전보건공단



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OSHA



2

OBJECTIVES AND PLANS FOR OCCUPATIONAL ACCIDENT PREVENTION

Key Initiatives for Accident Prevention Activities



First, Countermeasures for large-scale occupational accidents

- Examine and verify harm and hazard prevention plan on the manufacturing industry and large construction site that has high accident risks to ensure safety in advance
- Tighten safety and health checkup on non-routine works such as maintenance of parent companies which use chemical materials and lend technical support by KOSHA and private agencies for small workplace handling chemical materials
- Secure safe use of machinery such as crane and lift by conducting safety and health checkup and prevent collapse accident by checking temporary structures of construction site in advance



Second, Fatality and accident prevention activities for the vulnerable

- Promote measures to prevent falling accidents by financially supporting the installation of system scaffolding and fall protection net as well as execution of work environment monitoring and special medical examination on small-sized workplace to secure healthy workforce
- Continue to train migrant, aging, prospective workers vulnerable to occupational accidents and conduct safety training to migrant workers before and after they enter Korea to increase safety awareness
- Financially support the vulnerable to occupational accidents such as aging or temporary workers with fundamental safety and health training not only to raise awareness on accident prevention but also to provide them with rights to work and to be safe



Third, Self-regulatory safety and health system establishment

- Foster competency to identify and eliminate potential risks lurked in the workplace by conducting risk assessment and acknowledgment project in cooperation between employers and employees
- Inspire business to establish Self-regulatory safety and health system so that implementation of safety and health related systems such as OSH organization, rules and programs can be checked in regular basis
- Encourage workplace to better their own working environment by providing safety and health checkup which identify harm and hazardous factors and provide improving measures



Fourth, Healthier workers and better working environment

- Maintain and improve workers' health by establishing health center within industrial complex populated with small-sized workplace and providing counseling, training, and assistance on issues related to occupational diseases
- Redouble efforts to prevent occupational disease by improving workplace environments with risk factors such as chemical addiction or asphyxiation in a confined space



Fifth, OSH partnership program and nationwide safety culture

- Expand proactive safety culture at workplaces with safety culture campaign, safety checkup on old and decrepit industrial complexes
- Eliminate blind spots of safety and health by forming an OSH consultative body consist of personnels from government - KOSHA - private for finding executable goals to improve issues in accident-prone industries where preventive measures are not administered properly
- Facilitate international cooperation as a global OSH leader for information sharing with advanced countries and provision of educational training for developing countries



Sixth, Effective policy and R&D

- Expand R&D conducted timely on the prevention of chemical accidents such as fire, explosion, or leakage of chemical facilities and large-scale accidents such as collapse of high-rise buildings
- Actively response to new and emerging occupational health problems to protect workers from future occupational diseases by having research on harmful factors and social issues due to new industries





3

KEY ACHIEVEMENTS AND FOCAL ACTIVITIES



OCCUPATIONAL SAFETY



Key Achievements in 2016

1. Risk assessment and on-site utilization

- Provided 61,256 small-sized businesses with consulting on risk assessment and on-site checkup to encourage them to adopt self-regulatory OSH system
- Acknowledged 5,217 business through improving utilization of safety contents and information such as virtual reality, walk-through videos by making them user-friendly
- Placed 20% discount on occupational accident insurance premium on acknowledged worksite

2. Sub-contractors supported by the parent company

- Expanded and run cooperative program on improving safety and health level of sub-contractor led by the parent company
 - Increased the number of parent companies' participation from 885 (7,904 companies including sub-contractors) in 2015 to 991 (8,524) in 2016
- Spread the supportive atmosphere by operating leader groups by sector that has high dependency on sub-contractors such as automobile, steel, shipbuilding to share case studies on support programs

Achieve 0.3‰ Level of Fatality Rate in Manufacturing Industry by 2019



Focal Activities in 2017

1. Prevention of large scale accidents, fatalities and new risks in active manner

- Strengthen implementation of 'making a habit of safety check before starting the work' on major causes of large scale accidents such as fire, explosion, suffocation, addiction or collapse
- Respond to new risks related to IoT based on smart factories following the 4th industrial revolution

2. Build competencies on workplace with 50 or less workers

- Intensive technical and financial support on workplace with 50 or less workers which accounts for 80% of all occupational accidents
- Focus on decreasing fatal accidents through changing way to

approach the problems, systemize work process and enhance the implementation of funded projects

3. Redouble responsibilities of parent companies on safety and health of sub-contractors

- Improve participation rate of sub-contractors and parent companies that are newly participating in cooperative program for supporting sub-contractors led by parent companies
- Develop industry-specified prevention activities such as evaluation system on OSH implementation on shipbuilding industry which has high dependency on sub-contractor
- Wider the sentiment to eradicate fatal accidents through CEO and working-level meetings in automobile, steel, and shipbuilding industries



IMPROVING WORKERS' HEALTH



Key Achievements in 2016

1. Hazardous materials management for decent working environment

- Decreased rate of 'process with exposure level by 150% of the exposure standard' compared to the year before by improving working environment and exposure level of 975 workplaces that have high exposure level (3.17% in 2015 → 2.99% in 2016)
- Developed and distributed key information on hazardous chemical materials (CHEM-i)¹ to raise awareness for workers handling chemical materials (1,000 items in 2015 to 2,000 in 2016)
- Reduced suffocation fatalities through customized support* based on categorized risk class for confined workplace (12 persons in 2015 → 11 persons in 2016)
- * Technical support for 2,566 sites, educational training for 8,085 workers, equipment support to 696 sites
- Safety evaluation for 763 sites and small workplace consulting · training support for 5,030 sites to check compliance with safety guidelines in all phases of asbestos disposal · removal work

¹ Component, Hazard, Exposure control, Management in emergency+information

Health Risk-free, Healthy Labor Force

2. Activating workers' health improvement program

- Contributed to decreasing occupational disease (4.31% in 2015 to 3.73% in 2016) in area condensed with small workplace by establishing workers' health center (20 → 21) and 5 new branch offices of the center
- Introduced Enterprise Health Promotion Index to evaluate corporates' health improving activities and motivate voluntary health improvement activities
- Supported campaign, consulting, training and psychiatric counselling to protect health of emotional laborers

Focal Activities in 2017

1. Response system to new types of health threats

- Strengthen monitoring and step-in system at the early stage of occupational diseases occurrence
- Conduct health protection consulting (1,000 sites) for emotional laborers and develop · distribute self-protection manual on high risk sectors (10 manuals)
- Conducting safety evaluation (2,000 sites) on asbestos disposal · removal businesses and support on-site monitoring for small asbestos disposal · removal worksite (5,000 sites)

2. Chemical and hazardous materials management

- Conduct technical support (40,000 sites) to increase awareness at hazardous material handling sites and provide on-site consulting (1,000 sites) on chemical information checking process (CHEM-i)
- Train with 3-3-3 suffocation accident prevention guidelines to encourage awareness on the risk of confined space, provide intensive man-to-man consultant (2,500 sites) and on-site customized training

3. Activating workers' health promotion activities

- Establish and operate workers' health center* and branch of fice** at industrial complex with condensed small worksite and secluded areas

Activities	Psychiatric counselling	Campaign	Consulting and Training	MOU execution
Achievements	48,806 times	40 times	65 sites, 10,338 persons	25 institutions

- Decreased number of patients with low back pain by 153 from 2015 by conducting immediate training in worksite with musculoskeletal disorder reports (5,858 sites)



* Number of workers' health center: 15 (2014) → 20 (2015) → 21 (2016) → 21 (2017)

** Number of branch office of the center: 5 (2015) → 21 (2016)

- Support expenses for promoting healthy activities based on enterprise health promotion index and select workplace with best practices (50 sites)
- Conduct consulting to 5,700 musculoskeletal disorder risks which that did not carry out risk factor analysis and support management-labor in raising perception and participation

4. Basic occupational health policy implementation

- Expand financial support for small workplace to adopt OSH system and help them to run work environment monitoring and special medical examination
- Support to increase professionalism by evaluating operation system of private OH institutions such as institutions for work environment monitoring, special health examination, asbestos diagnosis, health management, etc.



CONSTRUCTION INDUSTRY



Key Achievements in 2016

1. Accident prevention programs by scale of construction site

- Conducted evaluation on harm and hazardous prevention plan of 6 high risk construction types including tunnel construction and regular on-site safety checkup (4,547 evaluations, 10,378 on-site checkup)
- Raised the OSH awareness of project owner and workers by conducting round checkup (53,953 times) on small workplace, whose budget is under 12 million dollars, by utilizing safety and health experts such as retirees with abundant on-site experience
- Promoted self-regulatory safety activities (1,815 sites) with financial support for improving facilities with risk factors to prevent falls at small construction site whose budget is under 2 million dollars
- Led to implement self-regulatory safety and health manage-

ment (4,120 sites) by evaluating and acknowledging risk assessment of workplace with good practices of conducting the assessment

2. Competency building on self-regulatory safety and health management of construction companies

- Contributed to increasing competency on systematic safety and health management by distributing safety and health management system (KOSHA 18001) for the construction industry to public project owners, general and special construction companies (12 public project owners, 79 general and special construction companies)
- Strengthened self-regulatory safety cooperation system and prevented fatal accidents by conducting accident prevention discussions with major construction project owners and contractors (90 times)

Intensive Prevention and Response System for Reducing Major Accidents

Focal Activities in 2017

1. Prevention and response system on major accidents with fatalities

- Introduce intensive management system on dangerous works to reinforce the examination process of harm and hazardous prevention plan
- Expand safety examinations on temporary structures
 - Expand the scope of check point for form timbering safety check program (KETS* 1.0) and improving on-site usability to distribute it to construction sites nationwide (later in 2017)
- * KOSHA Examination of Temporary Structure
- Run accident investigation committee to prevent recurrence of large scale accidents
 - Immediate response to social issues, in-depth analysis on the cause and implement holistic prevention plan
- Introduce management method to enhance technical support effectiveness and efficiency

2. Intensive management on small·medium-sized construction site

- Secure effectiveness of safety and health patrol
 - Implement mandatory recommendation for improvement through internal policing and “warning notice for accident risks” issuance system
 - Issue 「Warning notice for accident risks」 on the five temporary structure of major accidents cause (work platform, safety fence, opening covers, ladder, movable scaffolding) and request for administrative actions in case of non-execution
- Increase budget to create clean workplace
 - Promote for budget increase
 - Support items: system scaffold, safety net, ladder type work platform

3. Respond to the megatrend of construction industry

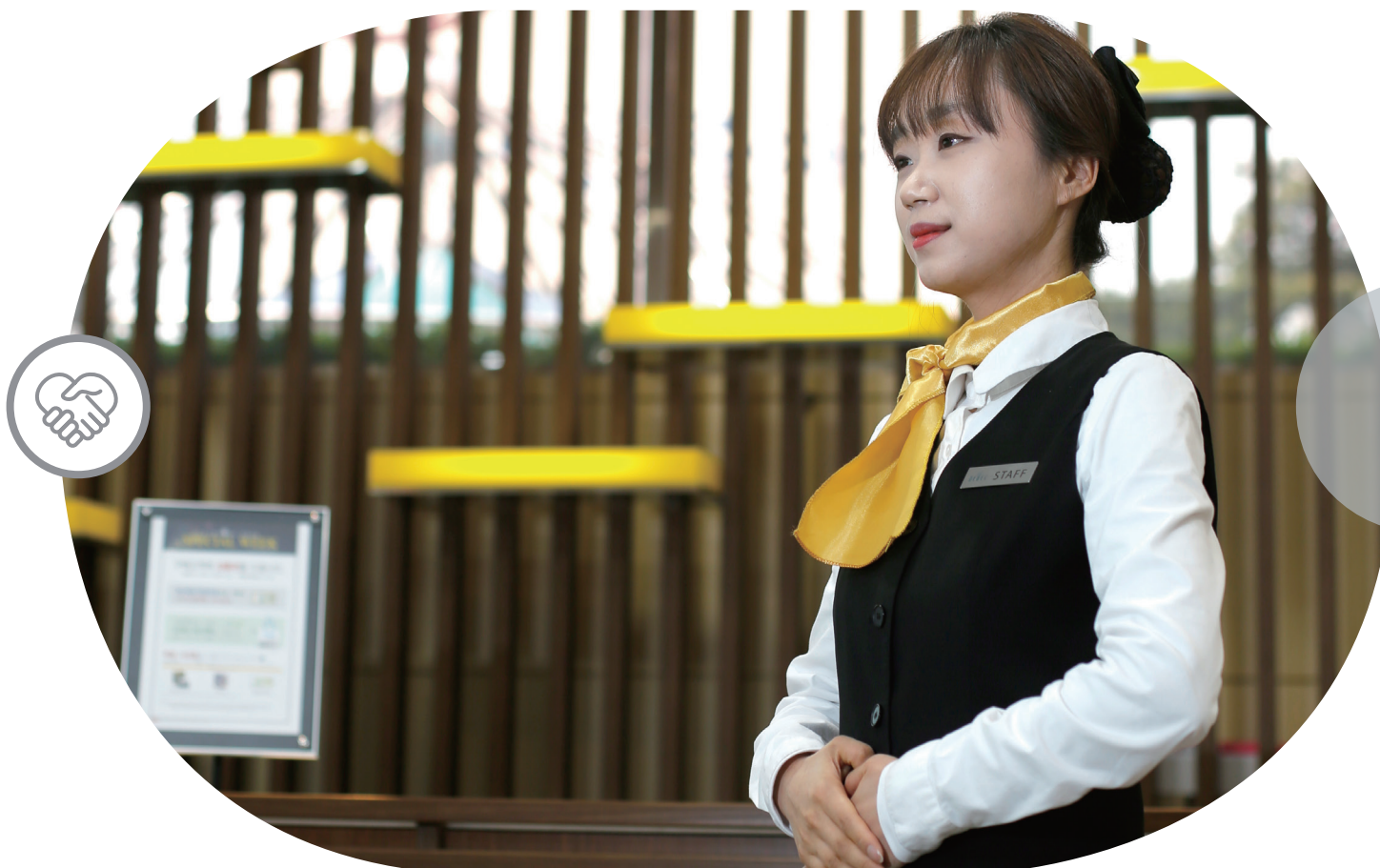
- Explore accident prevention measures for future construction industry
 - Re-modelling construction, off-shore industries, urban revitalization construction etc.
 - Contract researches and promote pilot project for technical support in 2017 for policy improvement
- Continuing implement of accident prevention programs such as policy changes related to construction machinery and equipment
 - Foster equipment safety culture through safety campaign such as construction machinery special plan (FM-2050) and intensive support on construction machinery/equipment (3,000 pcs)

4. Self-regulatory safety and health system for each participating parties

- Distribute safety and health management evaluation model for each participating party (K-CoMPASS, KOSHA Construction Management Proficiency Assessment for Safety Systems) for decision making process such as self-diagnosis and evaluation or resource distribution etc.
- Involve all 6 regional offices of KOSHA for the KOSHA 18001 certification
 - Expand participation of general and special construction companies in regional areas
- Competency building training for accident prevention (CEO safety training) and discussion session for the headquarters of companies in the accident-prone industries
 - plastering, water-proofing, masonry, scaffolding structure dismantling companies
- Expand the safety and health consulting target (over 1 billion dollars to over 500 million dollars projects)



SERVICE INDUSTRY



Key Achievements in 2016

1. Accident rate reduction to the level of 0.4%

- Occupational accidents in the service industry decreased 9.7% (2,690 persons)
※ 27,873 (2009) → 25,183 (2016)
 - Accounts for 52.8% of the total of all accident decrease (5,094 persons) during the same period (2009-2016), contributing to reaching to the level of 0.4% of overall accident rate

2. New projects fit into the tendency of the industry

- Developed targeted accident prevention projects for vulner-

able working class such as motorbike delivery workers, port unloading workers, high altitude services (telecommunication cable installation, air conditioner external fan installation etc.) workers

- Started promotion and persuasion activities toward citizens to prevent occupational accidents in the service industry by reflecting particular agenda in the industry which are sensitive to customer's request
 - Safety slogan shown on utility bills, radio interview, expert column contribution etc.

Interaction and Cooperation to Protect the Vulnerable



Focal Activities in 2017

1. Intensive technical support for accident-prone jobs and industries

- Basic safety support for accident prevention in the industry
 - Spread safety guidelines with basic safety check for worksite under 10 persons and distribute safety and health materials (160,000 sites)
- Intensive technical support for accident prevention
 - Provide intensive technical support to high risk facilities (50,000 sites) utilizing service industry related NGOs that have higher accessibility and acceptability to the worksite

2. Accident prevention activities fit into the industry

- Safety and health system certification to headquarters
 - Support on-site safety and health system of headquarters of service businesses with number of branches (franchise, building management, large distribution business etc.)

- Laws and policies improvement

- Expand safety and health coverage by improving law · policies to prevent accidents on workers in vulnerable positions through partnership between government and public institutions

- Organizational culture on safety and health

- Adopt an 'evaluation system of organizational culture on safety and health' which, in addition to place and facilities analysis, analyzes organizational and psychological aspect to counter changes in industrial and employment structure

3. Accident prevention activities driven by private sector

- Basic safety and health training for the service industry
 - Support competent private institution in order to provide workers with quality OSH training service, who don't have easy access to the systematic training



PROFESSIONAL ENGINEERING



Key Achievements in 2016

1. Process safety reports evaluation and confirmation

- For major accident prevention with comprehensive and scientific activities, conducted fact finding studies and process risk assessment, established MSDS, prepared plans, maintained dangerous facilities targeting on the 7 business categories including oil refinery and workplace that use 51 harmful chemical materials such as chlorine, phosgene over standard amount
- Process safety report evaluation/confirmation (2,308 cases)

2. Safety and health management system (KOSHA 18001)

- Contributed to occupational accident prevention through supporting implementation of KOSHA18001 on site

<Comparison of Accident Rates between All Manufacturing Workplace and Acknowledged Workplaces> (Unit: %)

	'12	'13	'14	'15	'16
Accident rate in acknowledged workplace (A)	0.45	0.39	0.26	0.24	0.30
Accidents rate in manufacturing industry (B)	0.77	0.78	0.72	0.65	0.62
Acknowledged workplace compared to the industry average (A/B)	58.4	50.0	36.1	36.9	48.0

Self-regulatory Safety System to Prevent Large Scale Accident



Focal Activities in 2017

1. Wider use of process safety reports

- Prevent major occupational accidents by evaluating and confirming process safety reports on relocation or partial structural changes of facilities that are susceptible to fire · explosion and toxic leakage
- Expected volume (1,600 cases)

2. Danger alert on chemical accidents

- Issue danger alert based on data gathered every 3 months to one of 3 danger levels (attention · beware · alert) in order to prevent large scale accident caused by non-regular works

such as repair, maintenance, conduct consulting and on-site safety checkup in accordance with the result of consulting
- Expected volume (2,000 cases)

3. Safety and health management system (KOSHA 18001)

- Maintain to improve safety and health management system (KOSHA 18001) meeting the requirements of the Occupational Safety and Health Act based on risk assessment system to catch up with the international standard which keeps changing
- Expected volume (1,0700 cases)



EDUCATION AND MEDIA DISTRIBUTION



Key Achievements in 2016

1. Customized educational support based on demand

- Executive Management training
 - Enhanced safety mindset of management on safety such as company owners and plant manager, thereby raising interest, promoting investment and active participation in safety and health activities
- Mid-management training
 - Fostered safety management competencies by providing practical training considering industrial structure, accident type analysis and local characteristics
- Workers training
 - Provided group training catered to local, site characteristics and hands on safety training and on-site training to enhance workers' awareness on safety

Customer-centered Education and Media

2. Developed and distributed various safety and health training materials for different business and job levels

- Development of media contents by reflecting social issues and characteristics of workers and worksite
 - Developed media reflecting social issues and site characteristics to promote self-regulatory safety and health management in small · medium-sized workplace
 - Developed safety and health media targeting migrant, aging and female workers as well as general public to enhance their awareness on accident prevention and develop required educational training
- 4-Track distribution to strengthen delivery and practicality of safety and health media
 - Distributed through multiple channels such as on-line (web-site, app) and off-line (agency, relevant institutions), on-site delivery system

< Performance in Media and Education in 2016 >

- Total: 692,089 persons

(Unit: persons)

	Management	Mid-Management	Vulnerable Class*	Workers	Need-based Group Training
No. of Trainees	120,620	72,718	214,587	258,877	25,287

* Vulnerable class: elderly, female, migrant workers and prospective workers



Focal Activities in 2017

1. OSH training by stratum for on site activation

- Foster responsibility of the management
 - Enhance safety mindset of the management such as company owner, factory manager, site manager to secure safety on site which is the core of company's competitiveness so that they put interest and investment on safety as well as participate in safety activities
- Raise practical competencies of middle-management
 - Foster practical safety management competency through on-site training that reflects local industrial structures and occupational accident characteristics
- Enhance workers' awareness to practice
 - Contribute to raising awareness of workers to put the training into practice by conducting group study that reflects local,

site characteristics and opening regular training classes in industrial complexes, as well as hands-on and on-site training

2. Proper media contents fit for future environments

- Develop customized safety and health contents depending on the target audience
 - Identify needs of users and develop leaflet, poster, sticker, A/V materials that are necessary to carry out the program
 - Develop safety and health contents using VR for more realistic training
- Improve on/off-line communicability and public promotion
 - Operate various channels to distribute OSH media contents to support self-regulatory management in small · medium-sized worksite through smart phones and delivery services



SAFETY CULTURE PROMOTION



Key Achievements in 2016

1. Effective safety culture through public and private cooperation

- Developed safety culture promotion programs such as OS expo with the Ministry of Public Safety and Security
- Started occupational accident prevention programs with labor unions, TV stations and occupational associations
 - Conducted 73 programs with 66 participating organizations
- Started localized accident prevention program with the Ministry of Employment and Labor, local government, media and labor organizations
 - Utilized bottom-up method to flexibly respond to changing environment such as local and social issues

2. Contents and promotion to spread public awareness on safety

- Created consensus by developing and utilizing visual contents such as web-toon, visual essay, card news etc.
 - 8 episodes (3.9 million views) of Naver <Gaus Impossible2>, 12 episodes (260 thousand views) of visual essay <Nation-wide Safety Culture Campaign>
- Conducted TV campaign starring celebrities to gain attention on the message
 - YTN 4 episodes, aired 344 times
- Enhanced promotional effect by integrating external expertise of ad agency and internal competencies

Safety and Health Culture for Practice

- Improved CPRP (Cost Per Rating Point) index by improving internal/external competencies
- Spreaded nationwide atmosphere for accident prevention through promotion considering accident types by regions
 - Occupational safety and health, Ring the Golden Bell (Ulsan city hall, Korea Economic News collaboration), Safety check before and after the work campaign (CJ E&M collaboration), Falling accidents prevention campaign utilizing web toon characters (Busan MBC collaboration)

3. Spread of nationwide safety culture at the National Safety & Health Week emphasizing on participation and practice

- International safety and health exhibition, safety and health seminar, best case-study sharing, various cultural events that brings all citizens to participate in a safety and health festivity
 - Concentrated efforts on spreading nationwide safety culture



Focal Activities in 2017

1. Voluntary safety culture of workplace

- Spread the safety culture by strengthening voluntary safety and health activity such as diagnosis and evaluation of safety behavior and system
- Host safety and health leaders meeting to find out and share best OSH practices leading to the enhancement of on-site OSH activities

2. On-site functionality enhancement and blind spots elimination for accident prevention by vitalizing safety and health network

- Strengthen countermeasures to safety and health issues by cooperating on target programs that reflect accident types by region
- Guide toward spreading safety culture and secure safety and health of the vulnerable such as emotional laborer and aging worker by working with management, labor, media and related institutions

3. Safety and health policy and project promotion

- Have promoting plans (budget, schedule etc.) be included in the early stage of planning a project to strengthen the link between safety and health policy and its promotion
- Maximize competency for promotion with various contents by selecting focal theme on the promotion quarterly

4. Bilateral communication channel with the public

- Strengthen bilateral communication through on-site utilization of safety and health information and expand new media promotion to form consensus on policies
- Raise safety awareness of people on-site as well as in everyday lives by newly developing safety program targeting the general public



INTERNATIONAL COOPERATION



Key Achievements in 2016

1. MoUs for technical cooperation with international OSH organizations

- Put sustained efforts to maintain and expand organizations to have an MoU with for enhancing international competency of KOSHA through technical and information exchanges
 - ※ Executed agreements with over 51 international institutions in 27 countries
 - ※ Key areas of agreements: Expert exchange program, sharing technical data, co-research, sharing OSH materials

2. Assistance for Asian countries to raise safety and health levels

- **(ILO Cooperative Programs)** Secondment to an ILO office in Asian region and provision of technical advisory
 - Dispatched expert to International Labour Organization(ILO) Asia Pacific regional office (2014 - 2016)

- Dispatched expert and conducted on-site consultation (3 times) to improve occupational safety and health standard in Myanmar

- **(WHO Fellowship Program)** Technical support to enhance occupational health standard in Asia Pacific region

- Training course (5 persons) to learn theory and skill for analyzing asbestos bulk sample using polarization microscope (PLM)

- * Occupational health officers from Laos, Mongolia, Vietnam, Cambodia, Philippines

- **(ODA Programs)** Enhancement project of Occupational Safety and Health Training Center with the Vietnam Ministry of Labour, Invalids and Social Affairs (Sept. 2013-May 2017)

- Developed 11 training courses and manuals, supported 3 Vietnamese OSH officers taking part in master's program in Korea, assisted for 13 construction safety experience training courses, provided 33 equipment items, training materials, mobile OSH training bus and vehicles

Create New Chapter of International Cooperation

3. Internationally exchanging safety and health information

- Operated 「International OSH Solutions」 to actively deal with various request for information on OSH of other countries from both domestic worksite and OSH professionals
 - Ran KOSHA website in English, issued international safety and health trend report ('16: Provided info for 74 requests including study on occupational accident prevention activity policy)
 - Issued and renewed occupational safety and health policy books for domestic enterprises going overseas (Vietnam, Taiwan, Singapore)

4. Dissemination of culture of prevention globally

- Developed international exchange and cooperation as the chair organization for a Culture of Prevention Section and vice-chair institution for the Special Commission on Prevention of International Social Security Association (ISSA)
 - Hosted the 5th Board Meeting of Culture of Prevention Section and participated in cooperative programs for each section to spread preventive culture
 - Participated in the general meeting of the 31st Asia Pacific Occupational Safety and Health Organization and hosted special session on preventive culture

Focal Activities in 2017

1. Agreements and technical cooperation program with advanced OSH institutions

- Exchange techniques and information on accident prevention through executing technical cooperation agreement with leading institutions in the U.S.A., Germany, Japan etc.
 - Maintain agreements with over 51 institutions in 27 countries including National Institute of Occupational Safety and Health in the U.S.A.
 - ※ By countries: Europe (12 countries, 27 institutions), Asia Pacific (13 countries, 20 institutions), Americas (2 countries, 4 institutions)
 - ※ By types: Technical exchange (14 institutions), technical support to developing nations (13 institutions), Mutual certification (24 institutions)
 - Internalize technical cooperation agreement with international organizations, and special institutions on accident prevention
- Strengthen technical cooperation with institutions in agreement and enhance capacity to handle new harm and hazard risks and respond to emergency case due to natural disasters

2. Technical OSH support program for developing nations

- Strengthen cooperation system with the Ministry of Employment and Labor and other relevant agencies and recipient countries to enhance efficiency in technical support program for developing nations
- Develop technical support programs for accident prevention

catered to developing countries by considering the level of development, industrialization, acceptance etc.

- Invited to conduct co-research, dispatched agency expert to ILO (Feb. 2017 - Dec. 2018)

3. OSH information and knowledge exchange at home and abroad

- Collect and spread the latest global OSH information such as best prevention practices, etc.
 - Explore best practices for foreign occupational safety and health policy · strategy and accident prevention by countries
 - Quickly provide international information by operating customer centered 'International OSH Solution'

4. Dissemination of prevention culture through global cooperation network

- Lead global network cooperation for developing Preventive Culture Index (PCI) and finding measures for wider use
 - Develop cooperation project with international organizations to spread preventive culture
 - Strengthen cooperation with members of Sections in the Special Commission on Prevention in ISSA
 - Execute and spread the Seoul Statement in cooperation with International Commission on Occupational Health (ICOH)



OCCUPATIONAL SAFETY & HEALTH RESEARCH



Key Achievements in 2016

1. Research based on the masterplan of safety & health innovation and the mid-/long-term research roadmap

- Researchers performed 80 research tasks in total
 - 46 tasks (57.7%) on the masterplan of safety & health innovation and employment & labor policy, 29 tasks (36.3%) based on the mid-/long-term research roadmap, 6 tasks on current issues

Topic	Total	2011	2012	2013	2014	2015	2016
Total	459	72	82	79	70	76	80
Political Measure	122	11	21	30	16	24	20
Safety & Health	76	12	20	12	13	9	10
Occupational Health	77	12	12	13	12	13	15
Occupational Environment	72	14	9	9	12	13	15
Chemicals	112	23	20	15	17	17	20

2. Internal/external flowback of the research achievements and performance improvement

- Improved performance of 『Application Rate to Improve Policy · System』 through reinforcing the policy and practical research
 - 33 research tasks (41.3%) applied to improve policy · system among 80 tasks in 2016
 - ※ Application Rate to Improve Policy · System : 18.3% in 2012 → 41.3% in 2016
- Improved the performance of 『No. of Research Papers Published in SCI-level Journals』 through the efforts to enhance the quality of papers on occupational safety & health
 - ※ No. of papers published in SCI-level Journals: 10 tasks in 2014 → 20 tasks in 2016

3. SH@W, a renowned international journal

- SH@W(Safety & Health at Work) was added to ESCI(Emerging Sources Citation Index) of Web of Science which is the database of academic journals by improving the submission rate to the journal and the citation rate for the journal articles

Year	Submission Rate				Citation Rate	
	No. of Papers Submitted	No. of Papers Published	Rejection Rate	Submission Growth Rate	No. of Citation	Growth Rate
2013	40	30	25%		74	
2014	153	49	68%	283%	170	130%
2015	282	51	72%	84%	281	65%
2016	358	56	84%	27%	364	30%

※ Source: ELSEVIER Online System for Paper Submission / SCOPUS Citation No.

- The journal took the 9th place among total 58 academic journals of transportation safety, food safety, etc. in SCOPUS list [Source : <https://journalmatrices.scopus.com/>]

4. Information transfer system of chemicals safety & health data

- Increased the search demand for a high-quality (MSDS)
 - MSDS engine searches: 2,610,960 (2015) → 2,785,424 (2016)
- Continuous increased in the case of application to use and create Open API service
 - Application to use Open API exceeded about 9 times compared to other MSDS service providers (197 applications in 2015 → 276 applications in 2016)

5. Reliability of the evaluation system of chemicals harmfulness and riskiness

- Kept GLP(Good Laboratory Practice) certificate
- Maintain KOLAS (Korea Laboratory Accreditation Scheme) accreditation and the accreditation fields were increased
 - Accreditation Fields : 18 fields → 19 fields (added the test of vapor pressure)

6. The only specialized test facility for chronic inhalation toxicity which covers carcinogenicity test in Korea

- Built the test facility for chronic inhalation toxicity due to low-concentrated long-term exposure and dermal exposure (Dec. 14, 2015)

- Operation system verification of test facilities · equipment in 2016 (3 cases) & Carrying out sub-chronic · chronic toxicity tests (11 tests) to increase credibility of the test results of chronic inhalation toxicity

7. Multilateral statistical and root cause analysis of occupational accident

- Root cause analysis and support of occupational accident by aligning statistics and research of occupational accident
 - Data analysis for evaluating local government offices of the Ministry of Employment and Labor, How to improve the service transfer system, Analysis data of work environment research to legislate emotional labor
- Contributed to improve the system through working environment survey and enforced research infrastructure
 - Use the research findings for policy-making research and system improvement of occupational safety & health
- Exploratory study on workers' psychological burdens affecting occupational safety & health (2016) → Providing analysis data on workers' psychological burdens such as stress, etc.

8. Epidemiological research and professional capability of quality management for industrial health service institutions

- Conducted Epidemiological research on workers' disease and exposure to harmful factors in worksite and their correlation
 - Epidemiological researches: 69 in 2015 → 77 in 2016
- Strengthened prevention function through enhanced preventive epidemiological researches (5 researches in 2016)

9. Field applicability through putting the research findings of occupational accident prevention into practice

- Published R2P (Research to Practice) report by finding a total of 12 cases practical uses of research such as 'Technology transfer for mass production of multi-sockets with an alarming function of an overcurrent', etc. (bi-yearly)
- Registered a patent on 『Ground continuity check & power disconnecting device』 based on the result of research on electricity risk reduction measures of mobile electrical machines · appliances (2015)

Safety & Health Research Institute, Leading Occupational Accident Prevention Policies



Focal Activities in 2017

1. Perform and Strengthen research based on mid-long-term safety & health policy of the government

- (Communication centered) Collect opinions on short-term and mid-long-term research topics
 - Strengthen consensus with policy-making authority and communication with labor · union · academia through 3-step procedure of operation
- (Alignment with the Policy) Perform research based on the government's safety & health policy such as the 4th 5-year-plan of occupational accident prevention
 - Concentrate on topics on policy research to provide logical basis of occupational safety & health policy
 - Strengthen preemptive and proactive research to address the current and future issues of safety & health field

2. Perform the 5th working environment survey and strengthen monitoring on social changes

- Monitor changes in risk factors and production methods through in-depth analysis of results of the 5th working environment survey, trend survey of occupational safety & health, and social changes such as maturity of safety culture, etc.
- Perform in-depth analysis research on 2015 occupational safety & health trends survey
- Establish year-on-year operation system of the survey conducted every 3 years to strengthen the monitoring system

3. Functionality of epidemiological research for proactive accident prevention

- Carry out preventive epidemiological research on issues relat-

ed with occupational disease from new causes or on industries and occupational groups (types of occupation) with high probability of diseases occurrence before diseases occur

- Monitor prevalence and development of occupational disease in the mid and long term, and conduct mid-long term epidemiological research and fact-finding research in parallel when needed

4. Research system on root-cause analysis of accidents and accident cases

- Build the accident investigation system to clarify technological · managerial · social · cultural natures including investigation of serious accidents to find the violation of regulations and technical causes

5. Chemicals management project improvement

- Strengthen information provision as a countermeasure of government investigation on humidifier germicide
 - Review adequacy of MSDS of new chemicals such as raw materials of humidifier germicide (biocides), etc.
 - Improve business confidentiality-related system, and review introduction of registration · examination system
- Increase substances that are required to write new MSDS, and provide credible chemicals information through updating and sharing harmfulness information of existing MSDS

6. Inhalation toxicity test system, establishment, test and evaluation

- Establish the system of exposure and analysis of test materials considering exposure characteristics of chemicals in workplaces
- Increase credibility of inhalation toxicity test using qualified equipment and test management IT system
 - Increase inhalation toxicity test and evaluation of unidentified toxic materials (14 cases in 2016 → 19 cases in 2017)

7. Nano-material management system research

- Establish the groundwork of nanomaterials exposure standards and safety evaluation according to the 2nd comprehensive measure of Nano safety management (2017-2021) and introduce the system

8. Field applicability of physical risk test · evaluation of chemicals

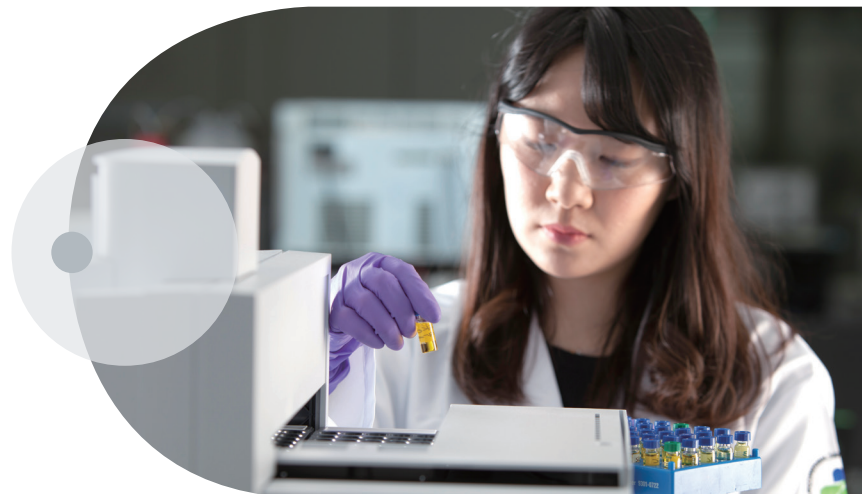
- Produce the results of physical risk test · evaluation of which field applicability is strengthened to clarify root causes of chemical accidents and prevent similar accidents (100 physical risk tests of chemicals in 2017)

9. Strengthened precise test · analysis of chemicals

- Scientific evaluation of workers' exposure to chemicals and root-cause investigation of serious chemicals poisoning accident by operating precise analysis equipment
- Gain reliability of the analysis results of chemicals test through expanding the participation fields of the international quality management program and the analysis proficiency

10. Proactive occupational health and environment researches reflecting OSH environmental changes

- Preemptive measures to exposures to new harmful factors that are able to occur in cutting-edge industries and the industries where Korea holds competitive advantage of technology
- Research focused on problem-solving and system enhance to increase effectiveness of occupational accident prevention project in the occupational environment field





OCCUPATIONAL SAFETY & HEALTH TRAINING



Key Achievements in 2016

1. Classroom Training

- Established customer-focused training infrastructure
 - Operated customer-focused training courses (11,534 trainees)
 - Developed job training courses for staff working at specialized institutions of safety & health according to changes in the government policy
 - Operated specialized training courses focused on practice according to workplaces' needs
 - Opened a training center in the central district to improve accessibility of trainees in the metropolitan area (Nov. 2016)

Total	Job Training	Training for Machinery Inspection	Professional Training	Specific Training
73 courses	1 course	7 courses	58 courses	7 courses

2. e-Learning Education

- Expanded the choice of training courses by developing new courses
 - Operated varied and customized courses (72,549 trainees)
 - Reformed curriculum to meet educational needs and replaced aging contents
 - Expanded the learning choices by developing new courses (No. of courses: 67 courses → 70 courses)
 - Built learning infrastructure of job training for foreigners
 - Established English website to take statutory job training courses for foreign chief managers
 - Improved quality of e-learning by creating high-quality contents
 - Updated design, legislations, accident statistics, etc. of contents (100 sessions)
- ※ Contents as of Dec. 2016 : 994 sessions (30-min-training per session)
- Developed 46 OSH contents in English for foreign managers

Safety & Health Education, Happy Energy for All



Focal Activities in 2017

1. Classroom Training (4 areas, 77 courses, 10,480 trainees)

- Improve operation and environment of training courses
 - Newly open course for staff working at institutions of safety & health reflecting the revised law (8 courses, 75 times)
 - Strengthen the training function through implementing training for leading groups of safety & health such as public corporation employees (43 times, 1000 trainees), occupational safety & health inspectors (10 times, 220 trainees), etc.
 - Raise customers' convenience by adding a training center in the central district
- Make efforts to strengthen teaching competency
 - Expand field trips to improve practical training skills (19 times in 2015 → 30 times in 2016)
 - Expand overseas training to strengthen expertise such as learning new technology/construction methods (3 trainees → 5 trainees)

2. e-Learning Education (3 course, 60,000 trainees)

- Operate training courses
 - Expand customized training courses by trainees' level

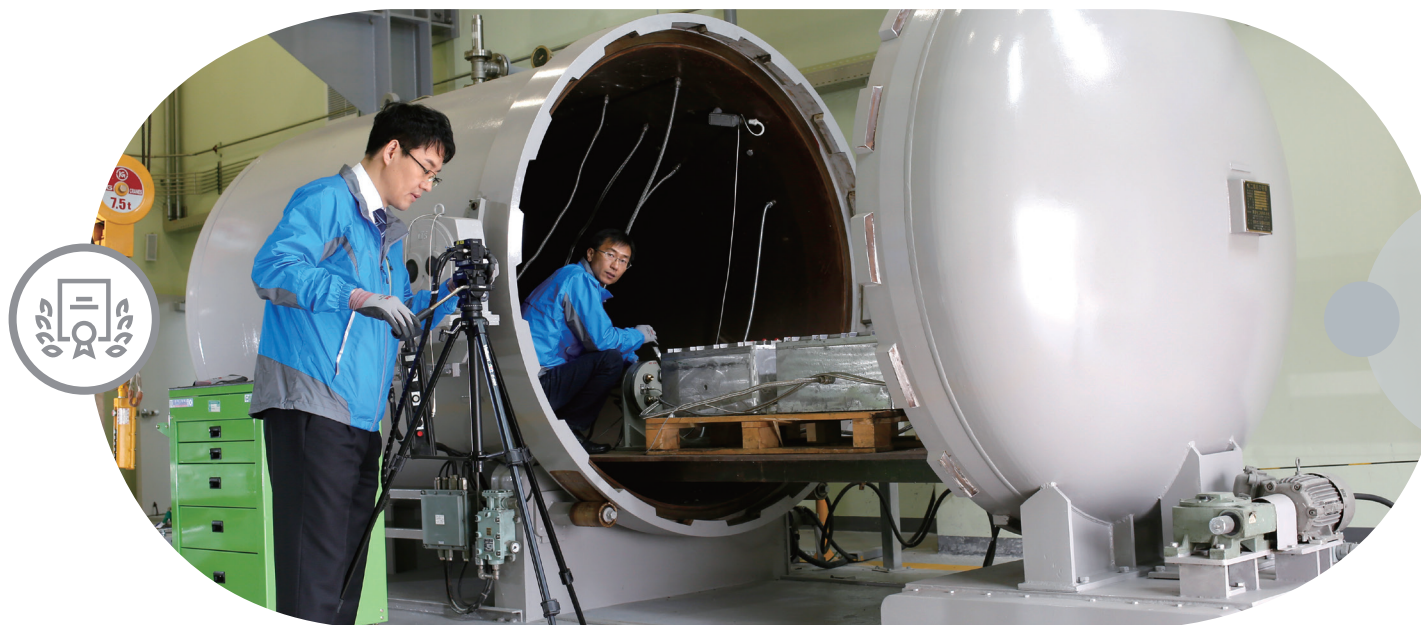
- Operate customized courses that are differentiated by trainees' level and workplaces' characteristics (12,000 trainees)
 - Continuously expand OSH trainings for prospective workers
- Implement safety & health education for students and staff of a specialized high school and a meister high school through cooperation with the Ministry of Education (4,000 trainees)
- Improvement of educational environment
 - Develop contents on rules of occupational safety & health standards (56 sessions)
 - Develop the training course and contents of safety & health for workers' in service industry (20 sessions)

3. Cooperative Education

- Operate top executive program of safety & health
- Operate top executive program collaborated with Choong-ang Univ. Business School (once, 25 trainees)
 - Train experts of safety & health working at small · medium-sized companies
- Train experts by subsidizing the tuition of master's degree courses for safety & health staff working small · medium-sized companies



OCCUPATIONAL SAFETY AND HEALTH CERTIFICATION



Key Achievements in 2016

1. Fundamental safety securement from safety certification test for machines · equipment and protective equipment · device

- Evaluated and certified safety of harmful · dangerous machine · equipment and protective equipment · device, etc., and secure fundamental safety through regular

<2016 Safety Certification, Safety Self-check Report & Safety Inspection>

(Unit: Case)

Safety Certification			Safety Self-check Report		Safety Inspection
Dangerous machine/equipment	Protective equipment/device	S Mark	Dangerous machine/equipment	Protective equipment/device	
56,531	5,664	1,768	11,659	228	35,018

- The 2016 victims (5,123 persons) caused by target machines of safety certification · inspection and safety self-check report

decreased by 1.5% (△79 persons) compared with the number of 2015 victims (5,202 persons).

2. Included accident-prone machine · equipment to the target of safety inspection

- Mobile crane and aerial work platform
- about 22,000 mobile cranes, about 14,000 aerial work platforms (estimated)
- Industrial robot and conveyor

3. Independent work on safety certification of temporary equipment · materials

- KOSHA independently performed safety certification of temporary equipment · material as Korea Temporary Equipment Association failed to be designated as a certificate institution for temporary equipment · materials

Soaring to New Heights as an International Certification Institute

4. Technical standards of safety certification and KS standards improvement

- Eliminated redundant regulations by comparatively reviewing safety certification standards of preventive equipment · device and S mark, and KS standards

- Revised (total 29) required · common · individual technical standards of S mark safety certificate, and preliminarily reviewed alignment of (total 32) certification standards of preventive equipment · device with KS standards

Focal Activities in 2017

• Occupational Safety and Health Certification Institute Opening (2017. 1. 1)

Promote efficient operation of the institute and synergy effects through cooperation including similar and redundant tasks elimination and by integrating safety certification/inspection-related tasks which the headquarter of KOSHA and the Safety Certificate Center of OSHRI have done separately

1. Safety test of conveyors and industrial robots

- Plan to conduct test of conveyors and industrial robots according to the revised law on Oct. 28th, 2016
- Prepare to implement the test including setting up safety inspection guidelines (draft) through experts meetings and public hearings

2. Safety certification · inspection program aligned with reduced occupational accident

- Propose reasonable adjustment of certification · inspection targets based on occupational accident statistics, and establish objective performance evaluation system aligning with current accident status

3. Foundation building to satisfy international standards and KS of certification · inspection criteria

- Come up with measures to satisfy international standards by comparatively reviewing international standards and KS of certification · inspection criteria
- Strive for the effect of support for domestic manufacturing companies to acquire overseas certificate with internationalizing technology standards

4. Professional competency of staff in charge of certification · test by field

- Vitalize technical education and strengthen certification · inspection business by enhancing expertise
- Raise competency by forming and operating a group of professionals, and enhance reliability on the result of certification · inspection

5. Fairness and transparency of certification · inspection tasks

- Strengthen the function of monitoring the market by phase such as manufacturing, distributing and using of target products of certification · safety self-check report
- Set up a culture of objectively doing tasks by enhancing integrity of inspectors

6. Functionality as the hub of private safety certification · inspection institution

- Reestablish the role as the center of safety certification · inspection
- Secure fairness and reliability of certification · inspection by evaluating performance of private certificate · inspection institutions

7. Mid and long-term plan soaring as an international safety certification institution

- Develop competency as the certification · test institute which satisfies international standards and restructure organization
- Establish the groundwork to perform tasks according to international standards such as separated operation of certification, test and inspection



안전

SAFETY



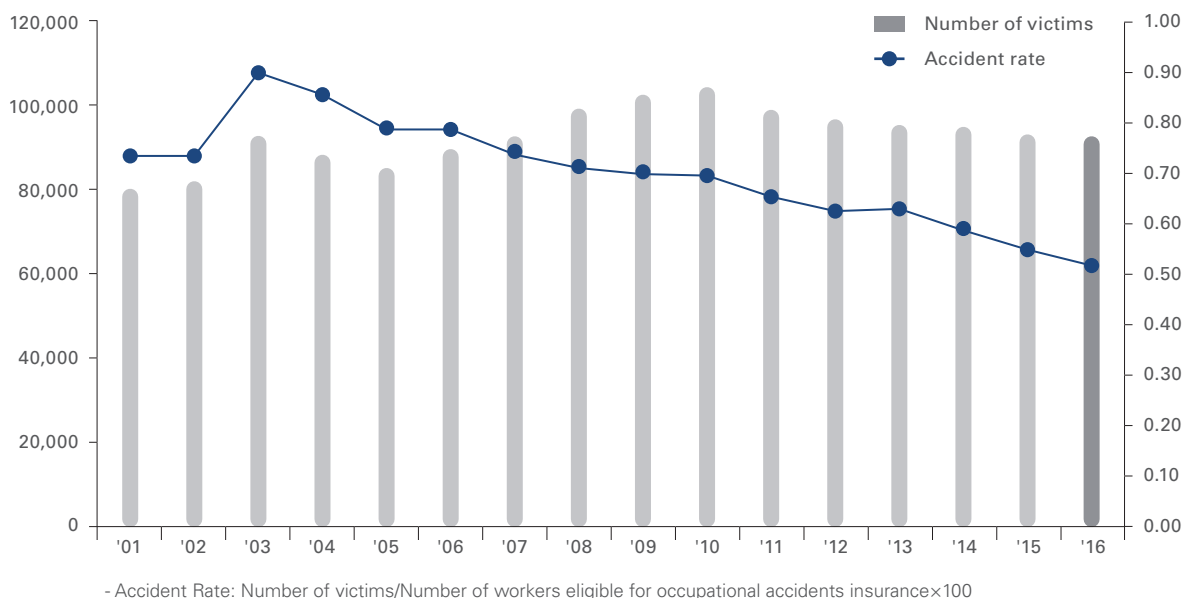
④

STATUS OF OCCUPATIONAL ACCIDENTS IN 2016

Overview

- Of 18,431,716 workers working at 2,457,225 workplace that are eligible for occupational accidents compensation insurance in 2016, 90,656 workers required 4 or more days of nursing and accident rate was 0.49%.
- The Number of workers increased by 2.6% compared the year before and occupational accident victims increased by 0.6% and accidents rate decreased by 0.01%.
- From July 2000, occupational accidents insurance coverage expanded from worksite with 5 workers or more to 1 person or more which caused to increase the accidents rate until 2003 and from then it is showing continued downward trend.

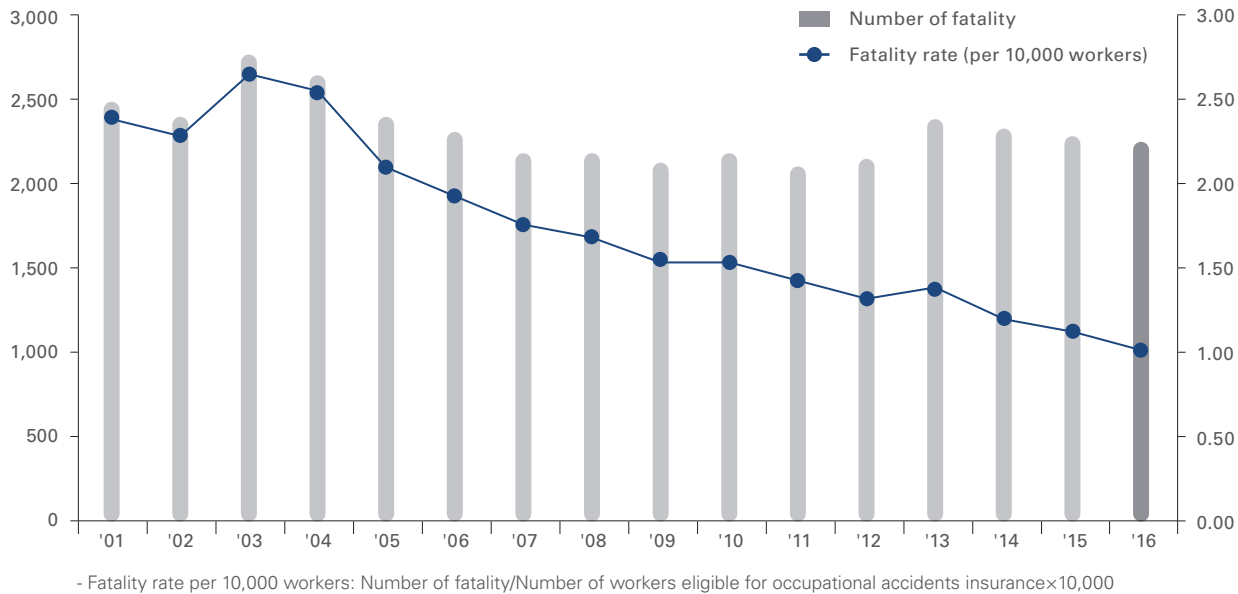
[Figure 1] No. of Victims & Accident Rate by Year



Status on Fatal Accidents

- Fatal victims were 1,777 and of those, work-related accidents were 969 and death from occupational disease were 808.
- The fatality rate per 10,000 workers were 0.96‰, which was 1.01‰ in 2015 thus decreasing by 0.05‰ and accidents at work was 0.53‰ which remained same as the year before. Kinds of accidents were pneumoconiosis (368), falls (366), other work-related diseases (cerebrovascular disease etc., 330) in order.
- The number of fatalities was on downward trend from 2004 to 2011. From 2011, it increased slightly until 2014 when it started to decrease again. The rate of fatality among work-related accidents was on increase until 2013 and it started to going down again from 2014.

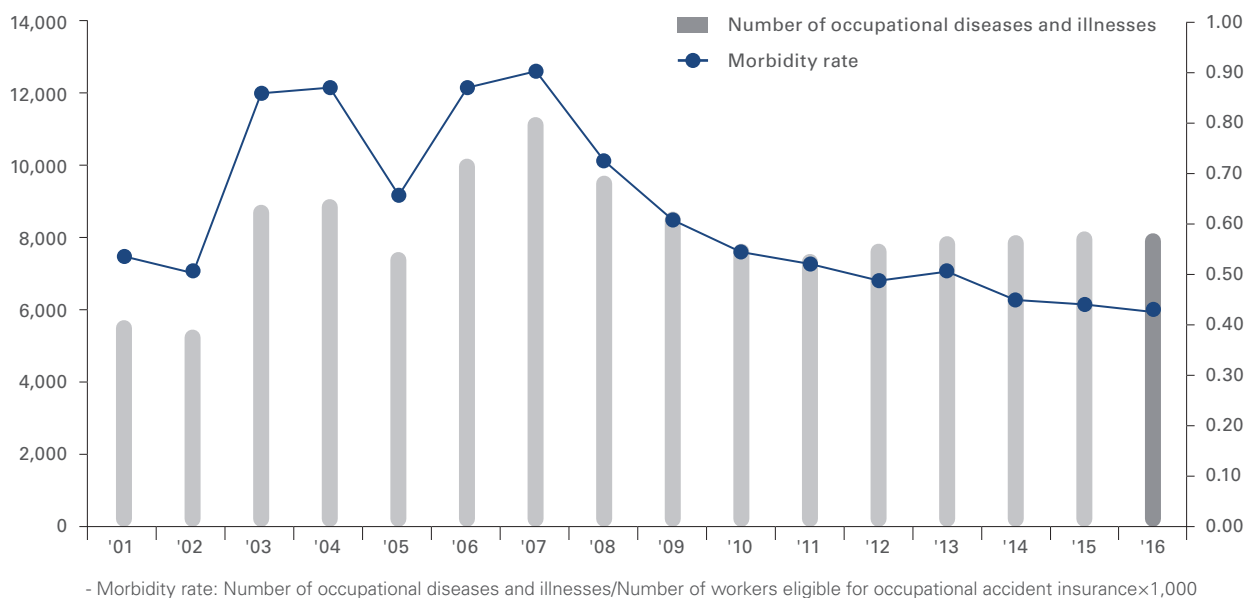
[Figure 2] Number of fatality and rate of fatality by year



Status of Occupational Diseases and Illnesses

- The number of workers suffered from occupational diseases and illnesses in 2016 (including fatality) were 7,876, which decreased by 43 (0.5%) from 7,919 the year before.
- Of these, occupational diseases were 2,234 in 2016 which increased by 275 (14%) from 1,959 the year before and work-related diseases were 5,642 which decreased by 318 (5.3%) from 5,960 the year before.

[Figure 3] Number of occupational diseases and illnesses and morbidity rate by year







KOSHA

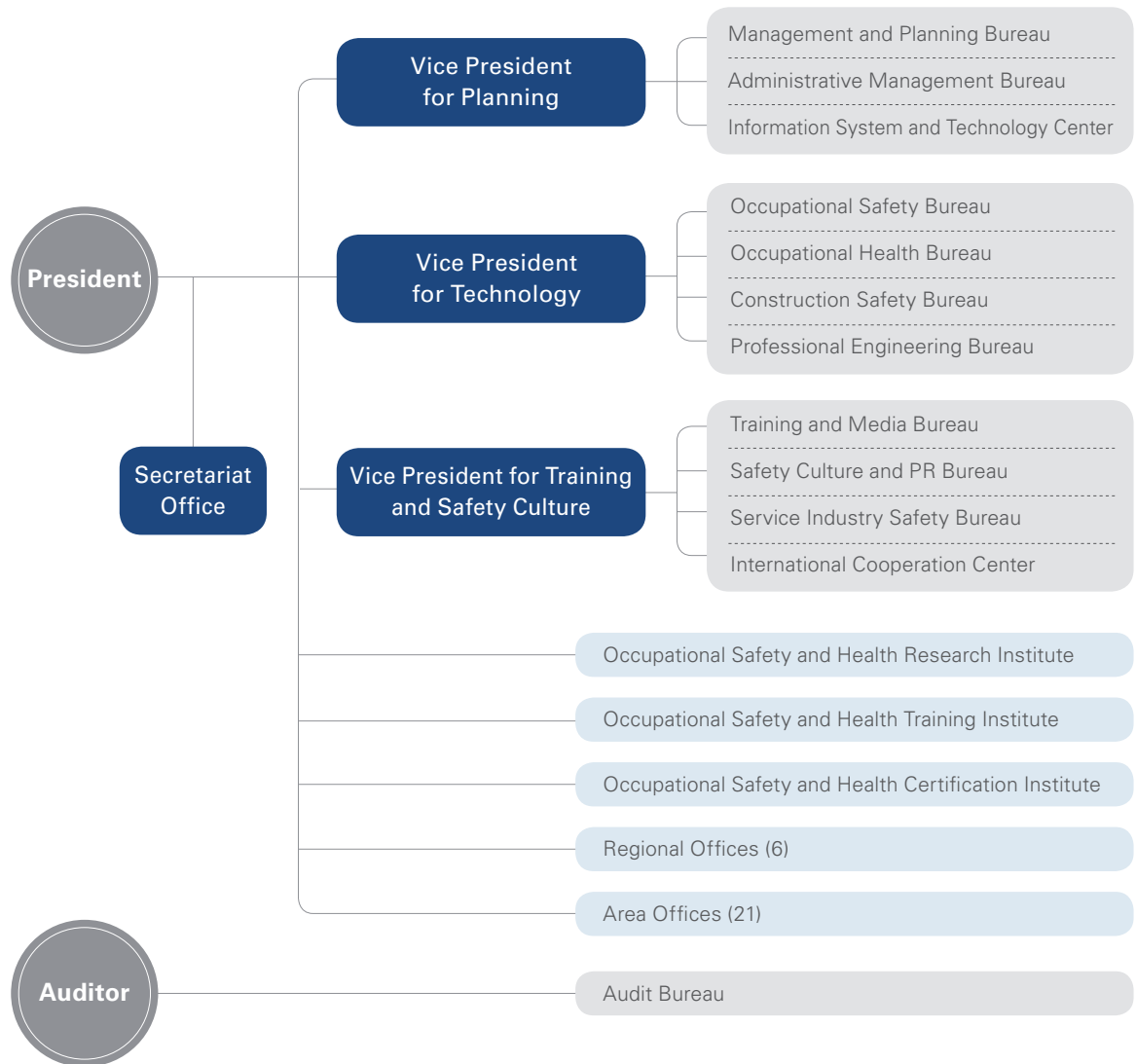
APPENDIX

- Organization & Staff
- Financial Report
- History

Organization and Staff

1. Organization

- Headquarters (10 Departments, 2 Centers), OSHRI, OSHTI, OSHCI, Regional Offices (6), Area Offices (21)

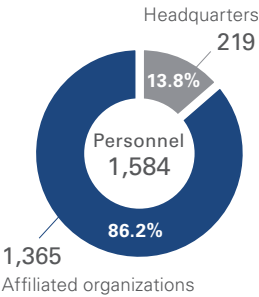


2. Staff

- Headquarters 219 (13.8%) & affiliated organizations 1,365 (86.2%)

(Unit: persons)

Total	Headquarters	OSHRI	OSHTI	OSHCI	Regional / Area Offices
1,584	219	145	50	52	1,118



Financial Report

1. Main resources

Occupational accident compensation insurance and contributions for the prevention fund pursuant to the Article 96 of the Occupational Accident Compensation Insurance Act

2. Revenue

(Unit: Million Won)

Division	2017 (A)	%	2016 (B)	Variation (A-B)	%
Total	503,295	100.0	508,631	△5,336	△1.0
Occupational Accident Compensation Insurance and Prevention Fund	500,795	99.5	506,088	△5,293	△1.0
- Contributions	270,676	53.8	253,259	17,417	6.9
- Subsidies	62,807	12.5	75,400	△12,593	△16.7
- Intangible Assets	1,036	0.2	1,079	△43	△4.0
- Loan	166,276	33.0	176,350	△10,074	△5.7
Earned Income	2,500	0.5	2,500	0	0.0
Commissioned Project	0	0.0	43	△43	

3. Expenditure

(Unit: Million Won)

Division	2017 (A)	2016 (B)	Variation (A-B)	%
Total	503,295	508,631	△5,336	△1.0
Support for "Clean Workplace"	64,692	77,285	△12,593	△16.3
Accidental Prevention by Industrial Classification	46,631	46,497	134	0.3
Safety Accreditation & Safety Inspection	6,748	6,647	101	1.5
Improvement of Hazardous Working Environment	21,966	17,523	4,443	25.4
Protection of Worker's Health	22,730	19,883	2,847	14.3
Occupational Safety and Health Culture	27,649	30,858	△3,209	△10.4
R&D and International Cooperation	7,570	6,070	1,500	24.7
Construction of Facilities for Occupational Accident Prevention	7,000	2,690	4,310	160.2
Operation of OSH Management Information System	5,515	3,905	1,610	41.2
Loan for Occupational Accident Prevention Facilities	166,276	176,350	△10,074	△5.7
Personnel and Operating Expenses	126,518	120,880	5,638	4.7
ODA Project	0	43	△43	



History

Foundation

1987-1990

- **December 1987**
Established the Korea Industrial Safety Corporation
- **July 1989**
Established the Occupational Safety and Health Research Institute

Take-off

1991-1994

- **October 1991**
Held the Korea-Germany Occupational Safety Cooperation Meeting
- **February 1992**
Held the Korea-Japan Cooperative Meeting on Occupational Diseases
- **August 1992**
10,097,600 people participated in Zero-Accident Signature Campaign
- **November 1993**
Held the 1st OSH Awards



Acceleration **1995-1998**

- **January 1995**
The occupational accident rate of Korea decreased to below 1% / Headquarters moved to Bupyeong, Incheon
- **December 1995**
Completed the Center for Safety and Health Research
- **September 1997**
Completed the Industrial Chemicals Research Center
- **April 1998**
Held the 14th APOSHO Annual Conference in Seoul, Korea
- **December 1998**
Integrated the Occupational Safety Institute and the Occupational Health Institute

Growth and Development **1999-2009**

- **November 2000**
KOSHA-BVQI Agreement on Mutual Recognition of the Occupational Safety and Health Management System
- **September 2004**
Received the Grand Prize at the National Productivity Awards
- **December 2004**
Completed the Center for Chemicals Safety and Health
- **October 2007**
Issued the 5,000th Safety Certification Mark ('S' Mark)
- **December 2007**
Celebrated the 20th anniversary of KOSHA's establishment
- **June 2008**
Held the 18th World Congress on Safety and Health at Work and adopted the Seoul Declaration on Safety and Health at Work
- **January 2009**
Changed name to the Korea Occupational Safety and Health Agency

Second Take-off **2010-2017**

- **February 2010**
Established the Service Industry Department
- **December 2011**
Announced the new CI and vision at the 24th anniversary of KOSHA's establishment
- **January 2013**
Established the Major Accident Prevention Department
- **January 2014**
Established the Partnership Program Department
- **March 2014**
Held an opening ceremony for the new headquarters of KOSHA in Ulsan
- **June 2015**
Hosted the 31st International Congress on Occupational Health
- **December 2015**
Completed test facility for chronic inhalation toxicity
- **November 2016**
Opened central training facility of OSHTI
- **January 2017**
Opened Occupational Safety and Health Certification Institute



Protect Lives and Health of Workers

With the aim to build a safer and healthier working environment for all,
KOSHA strives to prevent occupational accidents and diseases,
promotes workers' safety and health and
encourages businesses to implement accident prevention activities

CONTACT ADDRESS

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Gyeongnam Area Office	055)269-0510	259 Jungang-daero, Uichang-dong, Changwon, Gyeongsangbuk-do, Korea	51430
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Eastern Jeonnam Area Office	061)689-4900	35 Museonjungang-ro, Yeosu, Jeollanam-do, Korea	59640
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Eastern Gyeongbuk Area Office	054)271-2014	402 POSCO-daero, Nam-gu, Pohang, Gyeongsangbuk-do, Korea	37822
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