Founded in 1987, Korea Occupational Safety and Health Agency (KOSHA) has since grown to be a world-class professional organization in occupational accident prevention through its pioneering and innovative work. With a single-minded devotion to make every workplace safe and every worker healthy, KOSHA’s focus has always been on workplace.
Contribution to promoting workplaces where all workers can work safely free from any accidents

Changes in our daily lives ignited by the Industry 4.0 have delivered colossal impacts on the safety and health environments throughout all workplaces. Newly emerging occupations, business platforms and subsequently arising new harmful and risk factors are forcing us to deal with new challenges.

In the year of 2018, KOSHA faced the biggest changes since its inauguration. Last year, the Korean government declared to halve occupational accidents with fatalities by the year 2022 and announced upcoming changes in policy paradigms. To swiftly respond to the government policies, KOSHA also implemented extensive reorganization in last May upon its existing occupational accident prevention programs by shifting its focus to the prevention of fatal accidents. Based on our analysis of ongoing occupational accidents, KOSHA selected three major fields in desperate need of immediate responsive measures and has exhausted all resources of KOSHA to address those needs.

In addition, KOSHA engaged in a massive reorganization, the biggest since its foundation, in order to provide people-oriented safety and health services. We reformed our system from existing functional system to a tailored system for each region designed to aggressively respond to local demands for occupational accident prevention in each region.

Moreover, KOSHA launched an in-house organization dedicated to responding to ever-changing technology and social environment, aiming to enhance expertise and future-oriented responsive competence.

Despite all the efforts above, I believe we still have a long road ahead for us to travel. It is because accidents do not decrease overnight even if we work so hard to ensure safety for everyone. And it is quite difficult to change bad old habits and long-standing practices in a short period of time. KOSHA will never be satisfied with short-term successes; instead, we are determined to continue making efforts to bring fundamental improvements throughout general practices and awareness concerning safety.

Accordingly, KOSHA has prepared this annual report describing all the projects and programs we have implemented as well as our performances to prevent occupational accidents for the past year. I sincerely hope this report to make another contribution to fostering workplaces where all workers can work safely free from any accidents.

Thank you.
INTRODUCTION

Aim & Direction for Accident Prevention
Focal Activities in Occupational Accident Prevention Projects
Aim & Direction for Accident Prevention

VISION
Encourage every working person to seek KOSHA for all matters concerning safety and health at anytime and anywhere

MISSION

1. We are to achieve policy objectives concerning safety and health by mobilizing all means.
2. We ensure taking care of vulnerable workers on safety and health who are in need of our help but cannot afford seeking assistance.
3. We aggressively seek and respond to issues by paying close attention to all safety and health issues at worksites.
4. We maintain the best professional competence by acquiring the latest technology and knowledge at all times in order to provide the highest quality services on safety and health for all people in need of the KOSHA.

MANAGEMENT PRINCIPLES

Enhancement of Inherent Functions
fulfilling its given duties bestowed by the public and solidify its presence by realizing the purpose of establishment as an institution guaranteeing the public’s right for safety

Preemptive Response to the Future
securing professional competence addressing the environmental changes in business management and discovering future prospects in the field of OSH

Implementation of Safety & Health Social Safety Net
- strengthening protection of the vulnerable to occupational accidents and provide non-discriminatory occupational accident prevention services
- enhancing its function as a hub of OSH service provider by comprehensive cooperation throughout the nation

Realization of Social Value
- completing its social responsibilities by expanding the spectrum of cooperation and communication with the public
- enhancing competency and realizing cooperative and progressive organizational culture
Focal Activities in Occupational Accident Prevention Projects

01 Building response system to focus on fatal accident reduction

• Reshuffle business organization to prevent 3 major fatal accidents, which are falls, collisions and suffocations, including safety management of forklift and intensive guidance provision to eradicate defective use on worksites
• Set a goal for fatal accidents reduction targeting 100 biggest constructions companies, support the safety management of business owners, and intensively manage the accident-prone businesses for strengthening prevention activities throughout construction industry
• Perform in-depth investigations into direct and systematic causes for serious accidents, including management and business designs, in addition to violations of laws and regulations

02 Reinforcement of statutory-political projects

• Evaluate and confirm process safety management reports to strengthen prevention of chemical accidents, continue examining facilities handling harmful chemicals and conduct new safety diagnosis
• Focus more on core improvements of fatal accidents by designating the subjects for risk assessment consultation to high-risk workplaces by regions and to reinforce the recognized fields
• Expand the candidates for cooperative programs in order to establish self-regulatory safety and health management system led by parent companies and to enhance supports from principal contractors

03 Response to changes in industrial environment, such as Industry 4.0, and procurement of professional engineering fields

• Procure a system pursuing professional engineering based specialized projects and enhance public roles in order to address safety & health issues carrying substantial social ramifications, such as electronic, chemical, construction and service industries
• Identify potential risk factors caused by the changes in industrial sites arising from proliferation of the Industry 4.0, including introduction of smart factories, and to help establishing future national prevention policies through analysis and utilization of big data

04 Extensive Investment of resources into accident prevention for vulnerable groups

• Engage in on-site health protection campaigns for CS workers, especially targeting wholesale and small consumable repair businesses, industries with emotionally high-risk
• Support expenses required for measurement of working environment and special medical examination targeting small businesses and to assist vulnerable business sites with patient managements
• Secure and manage work safety and remove blind spots through intensive monitoring of the worksites lack of safety assessments on disposal and removal of asbestos

05 Vitalization of worksite-oriented regional characterization

• Engage in projects specialized in fatal accident reduction and prevention of accidents causing serious injuries by local characteristics based on each region through choice and concentration with regard to regional risk factors
• Pursue construction safety projects for the purpose of comprehensive management of construction machinery-equipment as well as high-risk constructions, such as area-specific SOC construction sites
• Encourage voluntary inspections on causes for fatalities by business sites based on self-regulatory programs for hazardous works in the service industry and to inspect high-altitude operations, such as installation of outdoor device of air conditioner, cable TV and internet

06 Proliferation of social consensus upon responsibility for safety

• Procure educational contents with the latest ICT applied and to expand empirical training facilities in order to help familiarizing safety & health knowledge
• Promote responsibility enhancement and awareness improvement through expansion of training courses for senior and middle managements and to restructure support training programs for workers to focus more on vulnerable groups
• Implement year-round promotions on new paradigm asserting that enhanced corporate responsibility for safety & health and safety is fundamental right for workers

07 Promotion of R&D on Safety & Health and international cooperative projects

• Perform preemptive research projects, including assessment of safety & health impacts from future risk factors and researches on subsequent policies and systems, by establishing mid-to-long term research agendas KORA (KOSHA OSHRI Research Agenda)
• Promote technical assistance and cooperative projects for prevention of occupational accidents in order to respond to the demands from developing countries
Key Achievements in 2018 & Focal Activities in 2019

Accident Prevention for Manufacturing Industry
Occupational Safety-related Projects, Occupational Health-related Projects

Accident Prevention for Construction Industry

Accident Prevention for Service Industry
Professional Engineering
Future Forecasting & Preparation
Accident Investigation

Education & Media Distribution Project
Safety Culture & Promotion
Prevention Network & Cooperation
International Cooperation

Occupational Safety & Health Research
Occupational Safety & Health Training
Occupational Safety & Health Certification
Key Achievements in 2018

1. Reinforcement of programs to prevent accidents and fatalities
   - Intensified efforts to prevent fatal accidents by developing consensus with interested parties and encouraging removal of key risk factors within accident-fatality-prone operations based on occupational accident analysis and factual survey
   - Evaluated and confirmed harm and hazard prevention plans for major hazardous facilities and high-risk occupations as well as opened discussions in order to prevent serious accidents
   - Monitored accident occurrence to improve effectiveness of accident prevention programs and provided on-site technical consulting to increase safety awareness and to prepare measures to prevent re-occurrence of accidents

2. Enhanced consumer-oriented voluntary participation
   - Help employers to voluntarily establish OSH management system by utilizing risk assessment as a means to manage risk factors prone to occur at workplace
   - Supported to develop safe employment environment through comprehensive financial assistance programs in conjunction with other systems, including self regulatory activities

3. Reinforcement of responsibility for employers concerning serious accident prevention
   - Expanded the boundary of and put more emphasis on responsibilities for safety and health between principal contractors and subcontractors throughout entire worksites and workers, to respond to increasing risk of accident from outsourcing
   - Built a foundation for worksites in order to review safety in advance during the processes of design, operation and review when constructing a smart factory for preemptively responding to new risk factors arising from the Industry 4.0

Focal Activities in 2019

1. Advancement of project to eliminate major risk factors from forklift operation
   - Implement distinctive projects based on factual survey and occupational accident prevention system through database of on-site risk information

2. Troubleshooting project for maintenance of machinery equipment
   - Examine current status of informal works by machineries·facilities and develop accident prevention techniques in order to prevent fatalities by caught in/between

3. Reorganization of financial aid project designed to elevate effectiveness of fatality reduction
   - Enlarge financial resources for construction businesses accounting for high ratio of fatalities and restructure financial support items to reduce fatalities

4. Projects to verify compliance with safety standards at smart factories
   - Improve systems and create measures for official projects for the purpose of preemptive response against future risk factors through verification of compliance and factual surveys

5. Implementation of effective OSH cooperative programs between parent company and subcontractors
   - Encourage extensive participations by subcontractors carrying social issues or high risks
   - Newly reflect permit systems on safety operations and mitigation rate of OSH discrepancy between principal contractors and subcontractors upon program level evaluation indexes in order to strengthen safety & health supports from original contractors

6. Improvement of accident prevention programs throughout shipbuilding industry with high ratio of subcontracts
   - Expanded theme-based technical training* concerning fatal-accident-prone operations in shipbuilding industry and promote self-regulatory prevention activities by having worksite to select a theme of ‘one safety for one principal contractor’
   - * Safety & health management systems for LPG ships and subcontractors, and accident prevention of crane, confined workplaces, painting, firearm operations and falls

Halve fatal accidents by the year 2022
02

Accident Prevention for Manufacturing Industry

Occupational Health-related Projects

Goal and Performance in 2018

1. Harmful substance management for pleasant working environment
   - Provided technical supports to 1,076 workplaces with high level of chemical exposures in order to improve working environment and exposure level and to 39,574 workplaces to escalate awareness on the toxicity of harmful chemicals
   - Enhanced the quality of working environment monitoring and special health examination and conducted 820 comprehensive assessments for reliability improvement
   - Reduced number of suffocation fatalities through intensive management for 3 major high-risk areas for suffocations* (18 deaths in 2017 → 14 deaths in 2018)
   - Evaluated workplace and presented directions for health promotion activities by each level through Enterprise Health Promotion (EHP) Index developed in 2016 in order to motivate business enterprises to voluntarily participate in health promotion activities
   - Evaluated health management entrusted facilities (7,200 facilities) and presented evaluation criteria by sizes of EPH index and business types
   - Operated occupational trauma consultation centers offering mental health programs for workers and witnesses at the sites where major labor accidents occurred (419 workers from 26 workplaces)
   - Carried out surveys and consultation to workers at the industrial complexes concentrating witg small-scale businesses or at the regions without private professional facilities through workers’ health centers (21 facilities) and branch offices (21 branch offices)
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2. Vitalization of health improvement programs for workers
   - Provided occupational health services (used by 179,315 workers) tailored for workers at the industrial complexes concentrating with small-scale businesses or at the regions without private professional facilities through workers’ health centers (21 facilities) and branch offices (21 branch offices)
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3. Financial supports (about $37.7 million) for small-size workplaces with limited health management to execute working environment monitoring and special health examination
   - Safety assessments on 1,200 workplaces with high risk of suffocation fatal accidents - Create and disseminate videos, VR, OPL about suffocations prevention with field-oriented educational training
   - Provided occupational health services to workers at the businesses with less than 50 employees
   - Evaluated workplaces and presented directions for health promotion activities by each level through Enterprise Health Promotion (EHP) Index developed in 2016 in order to motivate business enterprises to voluntarily participate in health promotion activities
   - Evaluated health management entrusted facilities (7,200 facilities) and presented evaluation criteria by sizes of EPH index and business types
   - Provided occupational trauma consultation centers offering mental health programs for workers and witnesses at the sites where major labor accidents occurred (419 workers from 26 workplaces)
   - Carried out surveys and consultation to workers at the industrial complexes concentrating with small-scale businesses or at the regions without private professional facilities through workers’ health centers (21 facilities) and branch offices (21 branch offices)

4. Strengthening implementation of basic occupational health system
   - Guide 1,500 workplaces handling chemicals for improving drawback by conducting working environment assessments such as exposure evaluation, etc.
   - Provide on-site technical consulting to 2,000 workplaces with high risk of suffocation fatal accidents - Create and disseminate videos, VR, OPL about suffocations prevention with field-oriented educational training
   - Evaluated health management entrusted facilities (7,200 facilities) and presented evaluation criteria by sizes of EPH index and business types
   - Provided occupational trauma consultation centers offering mental health programs for workers and witnesses at the sites where major labor accidents occurred (419 workers from 26 workplaces)
   - Carried out surveys and consultation to workers at the industrial complexes concentrating with small-scale businesses or at the regions without private professional facilities through workers’ health centers (21 facilities) and branch offices (21 branch offices)

Focal Activities in 2019

- Tailored technical supports based on risk levels after evaluating risks for health hazards by characteristics of chemical, physical and ergonomic harmful factors (8,000 sites)
- Guide 1,500 workplaces handling chemicals for improving drawback by conducting working environment assessments such as exposure evaluation, etc.
- Provide on-site technical consulting to 2,000 workplaces with high risk of suffocation fatal accidents - Create and disseminate videos, VR, OPL about suffocations prevention with field-oriented educational training
- Evaluated health management entrusted facilities (7,200 facilities) and presented evaluation criteria by sizes of EPH index and business types
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Enhanced responses to new health risks

- Carried out consulting for 1,000 sites on health protection for emotional workers and campaigns to promote a culture of protecting emotional workers
- Operated a psychiatric consultation center on occupational traumas for workers at the sites where major labor incidents occurred
- Serious occupational accidents, workers’ suicides incidents, physical assaults, sexual harassment incidents
- Implement 180,000 working environment surveys concerning information on chemicals handled by workplaces around the nation, possession of hazardous machine · equipment · facility and working environments and utilize the result as references for OSH policy
Accident Prevention for Construction Industry

Key Achievements in 2018

1. Accident prevention programs by scales of construction sites
   • Evaluated harm and hazardous prevention plans of 6 high-risk types of construction sites, including tunnel constructions, and regular on-site safety inspections (4,124 evaluations & 13,263 on-site inspections).
   • Raised OSH awareness for employers and workers through roving inspections of small-sized construction sites (of which budget is less than about $12 million) by utilizing retirees with vast on-site experiences and safety-health experts (69,551 inspections).
   • Promoted self-regulatory safety activities through partial financial supports for the costs required to improve facilities with risk factors in order to prevent fall accidents at small-scale construction sites worth less than about $20 million (2,639 sites).
   • Contributed to accident prevention through intensive guidance targeting workplaces with ineffective safety facilities, high-risk sites for falls or the sites with limited efforts for improvement (2,249 sites).

2. Competence enhancement of self-regulatory safety and health management by constructions businesses (sites)
   • Contributed to competency improvement of systematic safety and health management by distributing management system for construction safety and health management system for construction (KOSHA 18001) to public project owners and general and special construction businesses (10 public project owners, and 100 general and special construction businesses).

3. Contributed to accident prevention through intensive guidance targeting workplaces with ineffective safety facilities, high-risk sites for falls or the sites with limited efforts for improvement (2,249 sites).

4. Expansion of financial support to generalize the use of system scaffold
   • Expand financial support for generalization of using system scaffold in order to ensure pleasant and safe working environment
   • Budget*: $23 million in 2018 → $34 million in 2019 (+ $11 million)
   • about

Focal Activities in 2019

1. Level management system to review and confirm harm and hazardous prevention plans
   • Level the management system such as monitoring system to timely verify major risk types
   • Preemptively secure fundamental safety and reduce accidental fatalities by verifying compliance with plans based on frequency of on-site risk levels
   • Build a steppingstone for 7/24 risk management functions by making an online system ensuring real-time two-way communication between KOSHA and workplaces.

2. Intensive training to eradicate workplaces using defective scaffold
   • Intensive step-by-step management to eradicate the use of defective scaffold
   • Constantly improve awareness on the risks of fall fatality and core messages
   • Make ceaseless efforts on projects to support clean workplaces at construction sites, management of defective scaffold installation by KOSHA offices, and improvement of awareness amongst interested parties.

3. Expansion and improvement of calculation and evaluation of construction safety index
   • Unify construction safety index at all public institutions and construction businesses with the fatality rate per 10,000 workers
   • Improve evaluation index on occupational accident preventive activities in accordance with prevention of fatal and serious injury accidents.

4. Preemptive response to fatalities and accidental disasters prevention in the construction industry
   • Expansion and improvement of calculation and evaluation of construction safety index

*about
### Accident Prevention for Service Industry

#### Key Achievements in 2018

1. **Technical consulting on accidental disaster prevention**
   - Provided tailored consulting to promote improvements upon materials being able to incurring accidents and unsafe behaviors incurring accidental fatalities and serious injuries (2,600 sites)
   - Implemented consulting to prevent occupational (safe behaviors) in order to reduce unsafe behaviors inside kitchens in the food industry which accounts for high ratio of accidents in the service industry (300 sites)

2. **Support for safety management at small service business sites**
   - Provided intensive technical consulting 100,000 times and basic safety supports (160,000 sites) designed to conduct safety inspection and provide OSH materials targeting service businesses with less than 50 employees and lack of safety management skills accidents through 3SB

3. **Support for OSH activities focused on headquarters-principal contractors**
   - Set a foundation for passing down OSH technique from headquarters-principal contractors to cooperative companies by ran Safety Companion acknowledgment program (10 times) subject to head offices having many branches and provided OSH win-win program targeting to 300 parent companies with cooperative companies
   - Launched campaign about accident prevention in the service industry targeting the general public by reflecting the nature of service industry which are prone to be sensitive to customers’ demands or serve customers frequently
   - Labeling safety message on bottles of beverage, radio interviews and contribution of experts’ columns to specialized journals

#### Focal Activities in 2019

1. **Expansion of safety net to prevent fatal accidents in the service industry**
   - (Prevention of fatalities from high-altitude operations) Spread key message on the compliance of safety through on-site patrol with respect to mobile high-altitude operations with high risks of fatal accidents (500 sites)
   - (Protection system for workers with 4 major hazardous operations at local governments) Conduct 900 surveys and 500 times of technical consulting concerning 4 major occupations prone for fatal accidents from the projects either directly conducted or ordered by local governments

2. **Technical consulting for workplaces with high risks of fatalities: serious injury accidents**
   - (Self-regulatory inspection program for 5 major hazardous operations) Help 10,000 businesses voluntarily check major risk factors of their own workplace in 5 major business types with high fatality rate and workplaces handling materials being able to incurring fatal accidents and provide on-site technical consulting for 1,000 workplaces
Key Achievements in 2018

1. Evaluation and Confirmation of Process Safety Reports
   - Contributed to prevention of serious occupational accidents through comprehensive and scientific preventive activities, including factual surveys on 7 business types, such as crude oil refineries, and workplaces using 54 types of harmful substances/chemicals, i.e. chlorine and phosgene, over the permitted standards, development of OSH materials, assessments on process safety and risks, establishment of countermeasures, and maintenance of hazardous facility
   - Evaluation and confirmation of process safety reports (2,661 reports)

2. Establishment and Support of Safety and Health Management System (KOSHA 18001)
   - Contribution to industrial accident prevention through supports for introduction and stabilization of safety and health management system at workplaces
   - Number of workplaces certified for KOSHA 18001 since the system was implemented in 1999 (1,701 sites)

3. OSH Comprehensive Examination
   - Contribution to prevention of occupational accidents by identifying harmfulness/risks at the workplaces with high risks for accidents, such as aging petrochemical factories, through examinations ordered by the Ministry of Employment and Labor or requests for self-regulatory examinations made by business owners pursuant outbreak of serious accidents, including major occupational accidents, and by presenting improvement measures
   - OSH examinations at 59 workplaces (ordered examinations at 12 sites & self-regulatory examinations at 47 sites)

4. Development and Distribution of Safety & Health Technical Guidelines
   - Development and Distribution of Safety & Health Technical Guidelines
   - A total of 1,377 technical guidelines were established between 1995 and 2018, and a total of 1,311 technical guidelines are currently available as of 2018 following a number of amendments and abolishment

Focal Activities in 2019

1. Evaluate and confirm process safety management reports
   - Prevention of serious occupational accidents through evaluation and confirmation of process safety reports for business owners newly establishing, moving or modifying major structure of facilities prone for high risks of serious occupational accidents, including fire, explosion and leakage of toxic substances
   - Number of projects (1,500)

2. Alert system for chemical accidents
   - Implementation of consulting services based on risk levels by collecting and analyzing risk symptoms of workplaces every 3 months and subsequently issuing danger alerts on 3 different levels (attention/beware/alarm) in order to eradicate serious chemical accidents prone to occur during repair, maintenance and non-regular operations; consequently, it is to conduct safety management, including on-site inspection upon urgent issues, based on the results from the above
   - Number of projects (1,700)

3. Establish and support Safety and Health Management System (KOSHA 18001)
   - Reformulation and operation of the new Safety and Health Management System (KOSHA-MS) from the Korean Safety and Health Management System (KOSHA-1989), which has successfully fulfilled the requirements under the Occupational Safety and Health Act based on the risk assessment system, in order to keep pace with ever-changing international standards (ISO 45001)
   - Number of projects (1,700)

4. Safety and health examination
   - Identification of potential hazardous risk factors from the workplaces suffering from major industrial accident or with high risks for occupational accidents, such as falls, explosions and collapses, which are either under the order by a local branch of the Ministry of Employment and Labor or have voluntarily requested for examinations; and presentation of improvement measures to the workplaces above
   - Number of projects (on frequent basis)

5. Inspection and safety examination on facilities handling harmful chemicals
   - A system where any person who installs and operates a facility handling hazardous chemicals, including toxic chemicals, chemicals requiring a permission, restricted chemicals, prohibited chemicals and chemicals requiring preparation for accidents, under the Chemicals Control Act is required to take regulatory examinations, such as falls, explosions and collapses, which are either under the order by a local branch of the Ministry of Employment and Labor or have voluntarily requested for examinations; and presentation of improvement measures to the workplaces above
   - Number of projects (2,000)

6. Technical training for prevention of fire-explosion accidents at small-and-medium-sized workplace
   - On-site technical training designed to prevent chemical accidents, including fire, explosion and leakage, targeting small-and-medium-scale workplaces handling harmful hazardous chemicals
   - Number of projects (1,500)

7. Develop and distribute safety & health technical guideline
   - Development and distribution of safety & health technical guidelines in order to contribute to fostering environment for self-regulatory safety & health activities at workplaces by responding to the changes in technical standards in Korea and overseas
   - Number of projects (100)
Future Forecasting & Preparation

Focal Activities in 2019

1. Directing design of future OSH infrastructure
   • The Future Response Bureau was newly established (January 1, 2019) in order to identify ever-changing industrial trends in Korea and overseas and also to build a foundation of KOSHA’s systems for the purpose of responding to the new and future OSH issues, ones related to platform workers and industries to be further advanced, bigger and complicated
   • Develop advanced OSH management model that is systematized and specialized for 4 major industries (electronics, construction, service and chemical)
   • Build stepping stone to analyze and operate standards for big data of OSH
   • It is to build a system where the safety and health is able to lead scientific technologies by applying the 4th industrial technologies (ICT, A.I., etc.) to the OSH field, and it is then to lead active changes in OSH preventive system by proposing future visions under the consideration of public concerns and public interests

2. Establishing safety & health center for 4 major hazardous industries
   • We make a construction plan for the safety & health center, including its size and composition; and develop accident prevention contents under the consideration of distinct characteristics (core risk factors) by each industry
   • Electronics: Expansion of occupational cancer and acute poisoning due to increasing use of chemicals → Build a systematic management system for chemicals, including improvement of information delivery system on the risks of chemicals to subcontractors
   • Construction: Excessive use of new techniques of which risks are yet to be verified → Improve construction safety system through development of applicable OSH management model concerning new techniques
   • Service: Vague identity of principal agent responsible for safety due to changes in forms of employment, such as platform workers → Organize comprehensive protection system for safety-and-health vulnerable working groups within service industry
   • Chemical: Increasing risks for massive explosion accidents due to aging chemical facilities → Build protective systems through development of OSH management model tailored to repair and maintenance workers at chemical plants

3. Build a big data analysis and utilization system
   • It is to improve operational systems for occupational disaster prevention by KOSHA through procurement of quality data by building a system capable of collecting, analyzing and utilizing OSH big data
   • Prepare a foothold to establish the big data center for occupational accident prevention by understanding technological trends and improving competence of KOSHA staff
07 Accident Investigation

Plans for promoting major projects in 2019

1. Accident Investigation Board (newly established)
   - Establish prevention measures against reoccurrence and improvement of systems through identification of fundamental causes upon outbreaks of serious accidents
     - Serious Accident: an incident involving 2 or more fatalities or an accident with 3 or more casualties (including fatalities)
   - Enhanced timely response through real-time monitoring of accidents
   - Operate a public-participating investigation committee to conduct fact-finding on accidents with massive casualty and rippling social issues

2. Support for in-depth investigation of serious accidents
   - Investigation of fundamental causes for serious accidents
   - Analysis and feedback of fundamental causes and contributing factors for serious accidents
   - Promotion of legal and systematic improvements concerning facilities attributable to repeated accidents
   - Training for employees’ competence in advanced accident investigation technique

3. Operation of public-participating accident investigation committee
   - Investigations participated by the general public into accidents with massive casualties and rippling social issues
   - Operation of a support group for the public-participating accident investigation committee assisted by experts from various fields in order to identify and improve structural and systematic problems within employment-labor environment based on in-depth analysis into causes of accidents

4. Enhancement of accident monitoring & response system
   - Enhanced timely responses through real-time accident surveillance and monitoring
   - Construction of systematic and prompt response system concerning disaster and crisis situations as a competent authority of disaster management
   - 7/24 monitoring and real-time situation notices in order to promptly respond to and notify situations
   - Distribution of monitoring outcomes to be utilized for timely technical training

Support for Investigation into fundamental causes to prevent fatal accident

- In-depth on-site investigation of serious accidents and supports
- Examination and application of advanced accident investigation techniques
- Organization and operation of an expert pool to investigate serious accidents
- Investigation of serious disaster and establishment of countermeasures
- Operation of executive office for government-led accident investigation committee
- Establishment and implementation of management & response plans for national disaster
- Real-time monitoring and distribution of situations concerning accidents
- Immediate reporting the progress of accidents
- Comprehensive execution and verification of emergency response tasks
- General security duties
- Resource management and education training of reserve forces and civil defense corps

<Process of Accident Situation Notice>

Ministry of Employment and Labor (MOEL)
KOSHA (Control Center)

Situation understanding
MOEL, Media, Internet, KOSHA-affiliated offices

Headquarter of the MOEL
Local Branches of the MOEL

KOSHA

Senior Management
President, Senior director for technology

Accident Investigation Board

Related department in the Headquarters
KOSHA-affiliated offices
### Focus on Activities in 2019

#### Key Achievements in 2018

**1. Development-operation of tailored education based on demands to improve safety awareness**
- Training for top- mid level management
  - Opened and managed curriculums to reduce 3 malignant occupational accidents as well as to put emphasis on the responsibility and raise awareness of those who have authority (employers, plant-on-site managers, supervisory managers) so as to secure safety, the root of corporate competitiveness
- Training for workers
  - (General workers) Expanded and operate group training catered to characteristics of each region and workplace and on-site hands-on training, by taking a step further from previous training focusing on lectures
  - (The vulnerable to accident) Contributed to elevated safety awareness of workers at vulnerable groups by implementing ‘Tailored Safety & Health Training’ focusing on accident cases and preventive measures designed to reduce occupational accidents for accident-vulnerable groups, such as migrant, elderly and female workers and industrial reserve manpower

**2. Development-distribution of various OSH educational contents by business and occupational type**
- Development of OSH media contents reflecting social issues, workplaces and workers’ characteristics
  - In order to support self-regulatory safety and health management at small businesses
  - For enhanced awareness to prevent occupational accidents targeting the general public and vulnerable workers, such as migrant, elderly and female workers
- Distribution through various media to strengthen communicability and usability of OSH media contents
  - For contribution to industrial accident prevention via various channels, including internet (OSH archives, Youtube, Apps), offline distribution (KOSHA, relevant authorities) and field delivery service system

**3. Development of OSH contents which are realistic yet carry strong educational impacts based on ICT**
- Develop leaflet, poster, sticker, booklet and audiovisual materials required to execute the program based on customer demands
- Converse current contents into mobile ones regarding the topics highly effective for industrial accident prevention
- Improvement of on-line delivery system by strengthening communicability and enhancement of PR
  - Develop VR-based contents to further improve engagement and power of information delivery
  - Operate distribution network for OSH media via various routes in order to support self-regulatory safety management for small businesses, including expansion of smart phone and on-site delivery services

**4. Development of media contents fit for future environment and strengthened communicability to worksites**
- Development of OSH contents tailored to each business and job type for the purpose of education and promotion of industrial accident prevention
- Develop leaflet, poster, sticker, booklet and audiovisual materials required to execute the program based on customer demands
- Development of OSH contents which are realistic yet convey strong educational impacts based on ICT

#### Focal Activities in 2019

**1. Safety and health training for each group focusing on fatal accidents**
- Expansion of safety & health training for top- mid level management
  - (Top management) Enhance sense of responsibility for safety and health and promote investment to secure safety for workers targeting those who have authority and responsibility through expanded training for top management including training for core managers of worksites prone for serious accidents and training for business owners on accident preventive rating system
- (Principal agents under obligations to guarantee environments and rights for workers to work safely (business owners, local governments, etc.)
  - (Mid-level management) Build self-regulatory accident prevention system and promote OSH activities at worksites by cultivating safety and health officers at the workplaces into professional workforce through OSH training for mid-level management personnel upon practical matters

**2. Development of empirical-practical training courses for vulnerable workers**
- Expand empirical OSH training centers to encourage empirical-practical training with excellent educational effects and update of educational contents to the latest
- Elevate safety awareness for workers through ‘Tailored Safety & Health Training’ targeting vulnerable workers’ group, including migrant, elderly and female workers and industrial reserve manpower

### Performances of educational projects in 2018

<table>
<thead>
<tr>
<th>Subject</th>
<th>Top management</th>
<th>Mid-level management</th>
<th>Workers</th>
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<tr>
<td>Number of Trainees</td>
<td>100,899</td>
<td>87,723</td>
<td>509,758</td>
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</table>

*Training support for 307,527 workers vulnerable to occupational accidents (elderly, female and migrant workers and industrial reserve manpower)
Safety Culture & Promotion

Key Achievements in 2018

1. Building foundation to spread measures of reducing accidents and fatalities
   - Delivered distinct PR messages by topics through triple media strategy and media mix in order for intensive promotion to prevent 3 major malignant fatal accidents (falls, suffocations, defective forklift)
   - Year-round extensive campaign for each medium based on a theme to reduce fatal falls by half
     - TV campaign (474), radio campaign (2,098), feature articles and contributions (19), press advertisements (58), PR via common medium in our daily lives (7,653), PR through internet media (232)
   - Improvement of effectiveness of events by delivering social messages to reduce fatalities during public events, such as ‘Safety Inspection Day,’ and promotion of public consensus to join countermeasures to reduce fatal accidents
     - Concurrent nationwide implication of the above through joint efforts between principal contractors and subcontractors
   - Selection of ‘Top 5’ targets: falls, caught in between, collision, mass chemical and suffocation accidents
   - In order to directly contribute to accomplishing the goal of fatal accidents reduction, select ‘construction falls prevention’ as a year-round PR theme, implement all-round promotions and form pan-national consensus

2. Enthusiastic response to social issues, including protecting workers vulnerable to occupational accidents
   - Built and implemented short-term special PR measures targeting the areas with increasing fatalities of migrant workers
     - Targeting 7 major regions, TV and radio campaigns were produced and broadcasted, provided PR materials on migrant workers supporting center, distributed PR materials offline, and cooperated with affiliated agencies and regional broadcasting stations for migrant people
   - Increased safety awareness to protect middle-aged construction workers by analysing type of accident occurrences, physical ability and lifestyle
   - Switching PR strategy for industrial mass chemical and suffocation accidents
   - Systematically analyze on the evaluation of PR performances by utilizing primary agencies, expanded monitoring of media trends, and improve reliability of PR on occupational accident prevention through year-round management of media risks based on the above
   - Provide quality contents and improve PR efficiency through social media by creating contents verification systems, including enhanced monitoring of portal sites
   - Operate a group of opinion leaders to collect their insights for preoccupying OSH issues and conduct preemptive PR activities

Focal Activities in 2019

1. Field-oriented promotion to reduce the top 5 fatal accidents
   - Improve awareness and expanded practice to prevent fatal accidents through common point promotions based on statistics on occupational accidents
   - Select ‘Top 5’ targets under the consideration of types of frequent fatal accidents and rippling social effects, developing PR medium in common, deliver key messages on safe behavior
     - ‘Top 5’ prevention targets in 2019: Prevention of falls, caught in between, collision, mass chemical and suffocation accidents
   - In order to directly contribute to accomplishing the goal of fatal accidents reduction, select ‘construction falls prevention’ as a year-round PR theme, implement all-round promotions and form pan-national consensus

2. Switching PR strategy for industrial accident prevention policies and projects
   - Select major media by targets and delivered specialized messages via media mix considering the life cycle of targets in order to maximize optimal effect of promotion
     - Business owners: OSH officials; TV & newspaper workers: radio, media in life, general public: new media, etc.
   - Expand the coverage of on-site distribution of PR materials and cooperate with affiliated bodies through networks among regional area offices of KOSHA, OSH commissions by industry type, private entrusted agencies

3. Contribution to proliferation of national safety culture by successfully hosting the 51st National OSH Week
   - Offered a nation-wide festival of OSH through Ceremonial event, Korea Industrial Safety and Health Show (KISS), OSH seminars, presentation of best practices and various events
   - Attracted social discussions by linking the theme with fatalities reduction

4. Enhancement of PR performance management system
   - Systematically analyze on the evaluation of PR performances by utilizing primary agencies, expanded monitoring of media trends, and improve reliability of PR on occupational accident prevention through year-round management of media risks based on the above
   - Provide quality contents and improve PR efficiency through social media by creating contents verification systems, including enhanced monitoring of portal sites
   - Operate a group of opinion leaders to collect their insights for preoccupying OSH issues and conduct preemptive PR activities

Proliferation of prevention-oriented OSH culture
10  Prevention Network & Cooperation

Key Achievements in 2018

1. Focusing on fatal accident reduction, reshuffled the all contracting-out projects which boiled down to successful reduction of fatal accident among the recipient businesses

* Total budget of 2018: 31.3 million USD, provided 356,000 technical assistances via 234 contracting-out agencies

2. Activated public projects for the proliferation of safety culture in order to protect workers vulnerable to occupational accidents, such as migrant and delivery workers and teen workers from meister schools

3. Put more importance on the indicator, fatal accident reduction, for the evaluation in order to encouraging private accident prevention agencies to participate in government policies

* Conducted evaluations on 696 agencies in 11 industries and encouraged 110 agencies to improve their service

Focal Activities in 2019

1. Focus on capabilities of small businesses for fatal accident-serious accident prevention

* (Reshuffle target businesses and industry) Adjust target businesses to response to working environment changes and to secure timely action for fatal-serious accident prevention by implementing a system of designating person in charge of OSH, expanding the subjects of workers compensation insurance in construction sector, and so on

* (Adjust key target by industry) Give priority to industries with high-risky work process (manufacturing), high fatalities rate per 10,000 workers (forestry), high risk of falls (construction), high risk of suffocation, etc.

* (Management in grades and intensification support) Manage businesses in grade through actual practice evaluation and intensify technical support on identifying critical factors in fatal-serious accident

2. Eliminate safety & health blind spot and increase OSH awareness by inspiring private bodies in taking part in KOSHA activities

* (PR for safety culture proliferation and settlement) PR to general public through special report, campaign, quiz show and event

* (Spread safety culture for fatal accident prevention) Set a goal to prevent fatal accidents in the industries using forklift, ladder and harmful chemicals

3. Strengthened Private Sector-Led Accident Prevention Activities

* Amend the Occupational Safety and Health Act by adding basis of evaluating private accident prevention agencies and establish rules for the procedure and management of the evaluation as the main agent has shifted from the MOEL to KOSHA

* Adopt an indicator of target management system within the evaluation of private accident prevention agencies for fatal accident reduction

Protection the vulnerable to industrial accident and expand safety-infrastructure through communication and collaboration
### International Cooperation

#### Focal Activities in 2019

1. **Agreements and technical cooperation with OSH organizations in advanced nations**
   - Exchange of techniques and information on accident prevention through execution of technical cooperation agreements with OSH organizations in advanced nations, such as the U.S., Germany, and Japan
   - Sustainable agreements with 51 professional institutions in 28 countries, including the National Institute of Occupational Safety and Health in the U.S.
   - By Regions: Europe (27 institutions in 13 nations), Asia-Pacific (20 institutions in 13 nations), America (4 institutions in 2 nations)
   - By Sectors: Technical exchange (14 institutions), technical supports for developing countries (13 institutions), mutual certification (21 institutions)
   - Enhanced technical cooperation with institutions under agreements; Strengthened responses to new harmful hazards and emergency disasters - accidents

2. **Expansion of cooperative programs for mutual growth of OSH with developing countries**
   - Enhanced cooperative system with developing countries in the Asia-Pacific region to help elevating the level of OSH
   - Technical supports for accident prevention accommodating the industrial environments of developing countries under the consideration of extent of industrialization, capability to adopt and progressive stage of recipient countries
   - Widen the spectrum of OSH cooperation with ASEAN countries in response to the New southern policy of Korean government

3. **OSH information and knowledge exchange in Korea and overseas**
   - Collection and distribution of latest OSH information around the world, such as good practices of accident prevention
   - Discovery of policies - strategies - trends of OSH in overseas as well as good practices of accident prevention by nations
   - Prompt provision of information and materials by running a people-oriented system, Global ISSUE Solution

4. **Implementation and dissemination of preventive culture in Korea and Overseas through Cooperation with Global Networks**
   - Leading the global network cooperation in order to co-develop, utilize and spread the Preventive Culture Index (PCI)
   - Enhanced cooperation with Special Commission on Prevention and other sub-committees under ISSA
   - Implementation and dissemination of Seoul Statement through cooperation with IDOH
   - Contribution to accident prevention through development of preventive culture index to be universally used throughout the global community
   - Plan to co-develop PCI with DGUV, the German occupational insurance union (2018~2020)

#### Global ISSUE Solution

### Key Achievements in 2018

1. **Technical agreements and cooperation with overseas OSH organizations**
   - Expanded spectrum of international cooperation through continued agreements on technical cooperation and improved expertise and international competency of KOSHA through technical and information exchanges
   - Agencies under agreements: 51 organizations in 28 countries
   - Core elements of the agreements: experts exchange programs, sharing technical information, conducting joint research, exchange of material resources (KOSHA’s mobile OSH training bus, equipment, apparatus, and materials for education, etc.)

2. **Supports to elevate the OSH level of developing countries in the Asian region**
   - By Sectors: Technical exchange (14 institutions), technical supports for developing countries (13 institutions), mutual certification (21 institutions)
   - By Regions: Europe (27 institutions in 13 nations), Asia-Pacific (20 institutions in 13 nations), America (4 institutions in 2 nations)

3. **Information exchange on OSH in Korea and overseas**
   - Operated International OSH Solution, in order to actively meet the needs of domestic businesses or OSH related persons on the requests for a variety of information
   - Reseons were made to 81 requests
   - Operation of official website in English, Publication and international cooperation of information on OSH overseas
   - Privided updated information, 12 Global OSH trends, 5 Issue Reports, 6 KOSHA News, etc.

4. **Global dissemination of prevention culture through network**
   - International cooperation as the chair organization for a Culture of Prevention Section and vice-chair institution for the Special Commission on Prevention of ISSA
   - Ran the Culture of Prevention Section of ISSA, worked with Education & Training Section of ISSA for hosting a symposium at the 2020 World Congress, published ISSA Newsletter
   - Awarded Certificate of Merit with Special Mention from the ISSA Asian-Pacific Regional Awards
   - Hosted symposia to proliferate culture of prevention in collaboration with International Committee of Occupational Health (ICOH)

5. **Implementation and dissemination of preventive culture in Korea and Overseas through Cooperation with Global Networks**
12

**Occupational Safety & Health Research**

**Key Achievements in 2018**

1. **Researches responding to government policies and social issues, including ‘Halving Occupational fatalities’**
   - Researches conducted by OSHRI in 2018: 79 researches
   - Researches on reduction of occupational fatal accidents (5 projects), practical researches for immediate on-site application (3 projects), researches to resolve social and current issues (10 projects), and researches on enhanced supports for establishment of occupational accident prevention policies (10 projects)

2. **Enhanced internal-external reflux of research outcome and improvement of performance**
   - Increased rate of applying research outcomes to improve policies and systems through reinforcement of researches on policy and practice
   - 40 projects (50.0%) out of 79 research projects were applied to improve the policies and systems in 2018
   - Applying rate for policies and systems improvement: 18.3% in 2012 → 50.0% in 2018

   - Publication of academic journals based on elevated level of OSH studies
   - Number of published SCI-level journals and academic journals: 31 journals in 2018
   - Information exchanges concerning important and current OSH issues amongst government, labors, managements, academic community and private sectors
   - Hosted a total of 17 policy forums, including one on political responses to heightened occupational fatalities

3. **Procurement of international stature of the international academic journal (SK@W) by OSHRI**
   - Existing at: SCI (Science Citation Index Expended) and SSCI (Social Science Citation Index) of Web of Science, a database of academic journals, based on improvement of world-wide submission rate and citation rate of the journals
   - Source: Elsevier B.V. Online System for Paper Submission, No. of SCOPUS Citations

4. **Qualitative-quantitative improvement and provision of OSH information on chemicals**
   - Update of Material Safety Data Sheet (MSDS) on chemicals information and assessment of reliability
   - Additional provision and application of latest MSDS information, implementation of reliability assessment on distribution MSDS
   - Accumulated number of MSDS information supplied: 20,346 types
   - Presentation of safety & health measures for workers through examination of investigation reports on harmfulness-risks of new chemicals submitted by business owners, and presentation of outcomes of harmfulness-risk classification based on GHS standards
   - Accumulated number of reviews on investigation reports of harmfulness-risks of new chemicals: 9,032

5. **Construction of foundation to improve chemicals management system under Occupational Safety and Health Act**
   - Proposal of Amendment to Rules on Safety and Health Standards for Chemicals Management (draft) effectively managing all harmful chemicals
   - Proposal of new establishment of Regulations restricting the use of industrial chemical products (draft)
   - Proposal of Criteria on selection of harmful substances subject to prohibition and permission for production (draft)
   - Development of Sub-ordinances upon closed MSDS screening, submission and disclosure, and projects (draft) delegat-ed by KOSHA

6. **Reorganization of exposure standards for chemicals and related information**
   - Development of grounds for establishment of exposure standards on inhalational particles and subsequent amendments (draft)
   - Proposal of amendments on exposure standards for 1-bromopropane (25 → 0.1 ppm) and amendments on exposure standards for cyanide

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*Source: Elsevier B.V. Online System for Paper Submission, No. of SCOPUS Citations*
7. Enhanced reliability of assessment system on harmfulness-risk of chemicals
   • Sustained certification of Good Laboratory Practice (GLP) [Ministry of Environment, Ministry of Food and Drug Safety]
   • Completion of regular assessment on GLP in the field of acute, subacute and subchronic inhalation toxicity tests (November, 2018)
   • Completion of regular assessment on GLP in the field of genetic toxicity tests (November, 2018)
   • Acquisition of international evaluation and certification (AAALAC-I) on test animal management (March, 2018)
   • Sustained recognition from the Korea Laboratory Accreditation Scheme (KOLAS) upon 19 test items, including the field of fire explosion

8. Identification of harmfulness of toxicity-unconfirmed chemicals and provision of toxicity information
   • Execution of acute, subacute, subchronic and carcinogenic inhalation toxicology tests (21 tests) and genetic toxicity tests (21 tests) in order to identify toxicity of toxicity-unconfirmed chemicals
   • Response to social issues through identification of health hazard of BIC, sterilizer for humidifier
   • Results from inhalation toxicity tests: Posted at the official website of KOSHA on MSDS information

9. Performance of epidemiological survey and improvement of competency specialized in quality assurance by occupational health service institutions
   • Execution of 75 epidemiological surveys concerning correlation between workers’ diseases and exposure to harmful factors at workplaces
   • Strengthened preventive function through enhanced preventive epidemiological survey (3 surveys)
   • Implementation of quality assurance activities throughout special and pneumoconiosis examination agencies, working environment inspection institutions and asbestos investigation bodies (7 times)
   • Procurement of foundation to provide basic statistical data for establishment of preventive policy against occupational accidents and improvement of project execution practice according to changes within the systems
   • Timely provision of statistical data on occupational accidents in order to establish a foundation to produce statistics on reports (business interruptions) of industrial accident investigation, pursue analysis projects and support industrial accident prevention projects
   • Formation of basis to calculate comprehensive statistics on occupational accidents of principal contractors/subcontractors and improvement of statistics calculation system to respond to increasing occupational accidents due to expanded scope of recognition for commodities as industrial accident

10. Implementation of the 9th Survey on OSH Trends and Enhancement of Monitoring Function on Social Changes
    • Implementation of the 9th survey on OSH trends (targeting 5,000 workplaces nationwide every 3 years)
    • Monitoring of OSH conditions by worksites and technical changes in order to assist exploration and establishment of OSH policies and mid-to-long term policies
    • Approval on preparation of State-authorized statistics by the National Statistical Office (Approval No.: 380004)
    • Distribution and provision of statistics through production and declaration of State-authorized statistical data with public confidence
    • Discovery of 7 cases of industrialization and commercialization, including development of ‘automatic injector for desorption solvent’ and ‘program for automated device analysis’, to build automated system to prevent and analyze acute toxicity incidents
    • Expanded uses of research findings through free-of-charge permits for industrial property rights (utility model) held by the OSHRI
    • Free permits for the “detection device for workers' safe activities using smart phones,” Utility Model No. 0480269 granted for 3 years (July, 2018 thru July, 2021)

11. Improved On-Site Applicability through Commercialization of Research Outcome from Industrial Accident Prevention
    • Completion of development of KORA (KOSHA OSHRI Research Agenda), mid-to-long-term research agendas by the OSHRI, designed to study and realize social values
    • Comprised of execution strategy for 3 major researches, 7 strategic assignments and 21 executive issues
    • Research on procurement of workers’ right to be healthy through OSH fact-finding survey on electronics and service industries (2 studies), and researches to identify the fields to apply ICT convergence safety and health technology and utilizations (1 study)

12. Construction of Safety and Health Preventive Response for Preemptive Risk Management
    • Establishment of direction for occupational accident prevention projects based on causal analysis of worksites where serious injury accidents have occurred
    • Application of program predicting harmfulness of acute toxicity chemicals
    • Research and development of device measuring harmful gas at confined workplace by using cutting-edge sensor technology

Focal Activities in 2019

1. Supports for establishment of policies to realize government’s paradigm to prevent occupational accidents
   • Development of sub-regulations focusing on newly added provisions under the amended Occupational Safety and Health Act
   • Study on analysis of serious accidents by types
   • Research on measures to impose responsibilities on project owners in order to prevent accidents at construction sites

2. Realization of research values contributing to reduce fatal accidents through commercialization of researches
   • Development of sub-regulations focusing on newly added provisions under the amended Occupational Safety and Health Act
   • Study on analysis of serious accidents by types
   • Research on measures to impose responsibilities on project owners in order to prevent accidents at construction sites

3. Response to social issues and resolution of current issues with safety and health
   • Development of health management measures for live-wire operation workers and guideline on health management for subways
   • Assessment of exposure to harmful factors and development of working environment management measures for cleaning crew for airplanes
   • Workers’ mental health protection through preventive health measures against workplace harassments
   • OSH factual survey on on-site staff members for broadcasting and movie productions

4. Preemptive response with epidemiological survey to prevent occupational disease
   • Expansion of preventive epidemiological survey to prevent occupational disease in advance
   • Execution of epidemiological survey based on big data applicable to preventive measures for future occupational disease
   • Selection of subjects based on collection of diverse inputs from the labor, management and academic community
A. Support for self-measurement system on working environment
- Prevention of acute poisoning accidents by building an automated sample analysis system to support self-measurement system on working environment and promptly providing the analysis outcomes.

B. Improvement of information delivery system for chemicals and management system
- Submission of MSDS pursuant to amended Occupational Safety and Health Act, and development of a management system to operate the MSDS closed information screening system.
- Qualitative-quantitative improvement of OSH information on chemicals based on preparation of new MSDS and updated dates.
- Development of improvement measures for management system concerning harmful substances and reproductive toxic substances subject to management.

C. Operation of consumer-oriented chemicals toxicity tests and information system
- Execution of inhalation toxicology tests by reflecting increasing demands for identification of society-wide harmfulness.
- Selection of candidate substances for GLP tests mainly focusing on materials used by each process, i.e. semiconductor.
- Execution of genetic toxicity tests as a Good Laboratory Practice (GLP) certification institution.
- Selection of GLP test substances mainly focusing on new chemicals related to electronics industry, i.e. semiconductor.
- Improved reliability of harmfulness-risk investigations for new chemicals.
- Forecast of toxicity of new chemicals based on the advancements of future new technologies.

D. Identification of harmfulness concerning inhalation toxicity of chemicals and production-provision of information
- Research to select test materials capable of maximizing preventive effects for workers’ health hazard and determination of their priority.
- Execution of acute and carcinogenic inhalation toxicology tests and researches by using laboratory animals for the purpose of evaluating impacts from respiratory exposure to chemicals of which toxicity is yet to be determined.
- Provision of findings from researches and GLP tests for establishment amendment of MSDS, worksites and relevant authorities.

A. Enhancement of on-site applicability of physical risk test-assessment on chemicals
- Provision of test materials on physical risks concerning fire-explosion of materials causing accidents in order to identify causes for chemical accidents.
- Identification of fundamental causes for chemical accidents, such as fire and explosion, and production of outcomes from physical risk test-assessment with enhanced on-site applicability for the purpose of preventing similar accidents.

Inhalation Toxicology Research Center

GLP (Good Laboratory Practice) Certified Institution

1. A professional institution specialized in inhalation toxicology research on industrial chemicals;
- The center generates findings from inhalation toxicology tests based on GLP and AAALAC-I standards in order to identify toxicity of chemicals which workers use and are exposed to at their working environments. The test results are being produced through automated toxicity test facility and data management system.
- The center, as an institution specialized in inhalation toxicology research, meticulously manages such test findings through a quality assurance (QA) management system.

2. Research institution conducting assessment on long-term low-concentration exposure to chemicals;
- The center offers basic data to generate exposure standards and material safety data sheets (MSDS) to manage working environment by verifying carcinogenicity, half lethal concentration (LC50) and no observable adverse effect level (NOAEL) caused by chemicals.
- Moreover, the center scientifically evaluates dose-response relations of chemicals by using lab animals in order to assess health impacts of workers experiencing long-term low-concentration exposure to chemicals.
Key Achievements in 2018

1. A total of 1,112,636 people trained by OSHTI since its foundation
   - Since founded in 1988, Occupational Safety and Health Training Institute (OSHTI) has trained a total of over 1.12 million OSH officers from various workplaces by collective training and online training as of 2018 (426,000 for collective training and 697,000 for e-learning)
   - Achievements in 2018: 189,160 people (11,584 for collective training and 177,576 for e-learning)

2. Ran training courses fully reflecting government policy on fatalities prevention and OSH trends
   - Timely developed and offered training courses to reduce fatal accidents
   - Ran special training courses in order to reduce tangible and direct causes for accidental fatalities in accordance with the “Measures to halve occupational fatalities”

3. Introduced and ran “Safety and Health MOOC” suggested by the public
   - MOOC (Massive Open Online Course): Open online course for a massive number of users;
   - OSHTI established channels where the general public could make suggestions any time for training courses that they want to take, developed “Safety and Health MOOC” online training courses after going through the deliberation committee participated by the general public, and offered those courses free of charge
   - 160 suggestions from the public, 53 contents developed, and distributed to 172,000 people;
   - Deployed cloud server to offer online training services in a stable manner
     - Even though stable operation of servers is essential to ensure the new project of online training and MOOC to be fully implemented, OSHTI’s e-learning website has suffered connection failures on numerous occasions due to overload on existing networks
     - Hence, OSHTI secured financial aids (30 million KRW) from “Tailored Cloud Support Projects for Public Institutions” and subsequently purchased cloud servers (concurrent connection capacity expanded by 36 times)

4. CQI-based efficient operation and established troubleshooting-oriented training assessment system

5. Operation of open campus, “Safety + (Plus) Consensus”, designed to help local college students finding jobs
   - Support of training tailored to assist job-seeking focusing on practical field works in order to develop local talents from local colleges by building continuous cooperative relationships based on execution of MOU between OSHTI and Ulsan University
   - Operation of practical training courses for junior and senior from local colleges (Ulsan University) and “Safety + Consensus” credit course (2 credits for one semester) focusing on practical field works
Key Achievements in 2018

1. Run and stabilize training courses focusing on enhancement of professional competency
   • Progressive recognition of training courses from previous short-term courses (2 to 5 days) to specialized education system that runs at least for 1 month or longer
   • Short-term professional training course currently available shall be gradually transferred to regional offices and private sector
   • Enhanced management of the course in order to improve educational performances, including operation and thorough management of discussion-based courses by securing top-of-the-line lecturers and through blended training courses by measuring the changes in the level of awareness within those who with authority and responsibility

2. Heightened training courses on the core types of fatal accidents and expanded coverage of training
   • Heightened training courses concerning the core types of fatal accidents in order to accommodate ‘Measures to halve occupational fatalities’ declared by the government, stating that the government aims to reduce the death rate in occupational accidents per ten thousand workers by half (0.53 → 0.27‰) by the year 2022 in order to address public concerns for occupational accidents
   • Reflux to reform training courses by measuring the changes in the level of awareness within those who with authority and responsibility

3. Prepare for opening of new training courses due to complete amendment of Occupational Safety and Health Act
   • Development and support of training courses capable of strengthening responsibilities of principal contractors and project owners in accordance with ‘Complete Amendments to Occupational Safety and Health Act’ and the government’s policies enhancing safety management for project owners
   • Opening of 11 new training courses, including on-the-job training for employees of professional institutions (safety inspection institute/self-regulatory safety inspection institute), of which statutory obligation is newly established pursuant to amendments made to applicable statutes, including the Occupational Safety and Health Act

4. Establish and manage infrastructure for training courses focusing on practice and experience
   • Construct a hands-on training center dedicated to tower crane installation and disassembly (scheduled to complete in December, 2019)
   • Construction of Practical Training Facility for Step-by-step Installation/Disassembly of Tower Crane’ in order for trainees to be able to learn how to install and disassemble tower cranes by working on practical structures installed nearby the ground level
   • Expanded operation of training courses from existing theory-based 36-hour training to practice-oriented 144-hour training in order for trainees to be capable of engaging in safety operations at the sites following the training, and addition of supplementary training every 5 years

5. Promote to establishing “Cyber Safety and Health Training Center” to elevate training through internet
   • Roadmap establishment) Clear establishment of roadmap, systems and roles by each principal agents for the cyber safety and health training center through analysis of internal/external business environment and external examination upon entire existing internet training service system
   • (MOOC Brand) Reinforced stature of “Safety and Health MOOC” as a signature brand for internet training in the field of occupational safety and health through benchmarking from the cases in Korea and overseas as well as expanded contents;
   • (Quality central) Quality assessment by lifespan of e-learning contents until extinction (4th year) after being serviced to trainees since development;
   • (Expert pool expansion) Expansion of expert pool, which includes experts in contents development, system construction and educational research in addition to experts on contents;

6. System to strengthen quality management of internet training service
   • (Development platform) Procurement of independent development platform* optimizing a process development model (ADDIE model), which used to be applied only to collective training, into online training courses;
   • Analysis (A) – (A) Conclusion reorgani- zation plan (A+ - (A+ - D) Design of training courses (D)+ - (D+) Formative evaluation (D+) – (D®) Deliberation and development of curricu- lum (D® - (D® - Operation of training (I) - (I) Performance evaluation/reflux (I))
   • (Credit recognition) Elevated cooper- ation with OSH-related colleges and universities in Korea (63 schools) to earn credit recognition following pilot opera- tion of accredited online course (3 credit course) on OSH education with a contracted institution (Ryungi University) in 2018

7. Collaborative training
   • Expanded operation of safety and health courses for CEOs (30 candidates per course)
   • Improve of safety awareness for senior managements and reinforced corporate competitiveness by offering the training on safety management strategy for sen- ior managements of business enterprises and executives of public institutions
   • 1 course at Chung-Ang University (2018)
   • 2 courses at Catholic University and Ulstein University (2019)
   • Financial aids on tuitions to help em- ployees of SMEs obtaining master’s de- gree (50 candidates)
   • Open OSH-related master’s course at 4 regular graduate schools*, and financial aids for tuitions;
   • Graduate School Offering the Course: 4 schools, including Ryungi University, Korea University of Technology and Education, Korea National University of Transportation and Hankyung National University
   • Expanded open campus course, “Safety + Consensus” (25 people per campus)
   • The “Safety Plus Consensus” course aiming to develop local talents in Ulsan is to be expanded from existing 1 semes- ter (second half) to 2 semesters (first & second half) through full utilization of superb educational infrastructure owned by OSHTI
14  Occupational Safety & Health Certification

Key Achievements in 2018

1. Procurement of complete safety through safety certification and inspection of Machines, protective guards and PPEs

   - Procurement of ultimate safety through regular inspection, assessment and certification of safety for harmful factors, hazardous machine and equipment and protective guards and PPEs prone to occupational accidents

2. Establish and improve safety inspection system on mobile crane and aerial work platform

   - Expanded operation of authorized inspection centers (32 sites → 36 sites) and implemented number of prevention activities to reduce fatal accidents through cooperation with private inspection bodies
   - Worked in cooperation with the Ministry of Land, Infrastructure and Transport and Korea Transportation Safety Authority to verify the level of again of crane by and Korea Transportation Safety Authority and Ministry of the Interior and Safety
   - Participated in cooperation with the Ministry of Land, Infrastructure and Transport and Korea Transportation Safety Authority to verify the level of again of crane by conducting site inspections at the vehicle registration office

3. Technical and financial support for manufacturing of protective guards and PPEs with superb quality

   - Develop and distributed light-weight and high-quality protective guards and PPEs with outstanding quality
   - Encouraged production of protective guards and PPEs with outstanding quality by hosting quality contests and noticing winning products

Focal Activities in 2019

1. Fulfilling the role of leader on safety certification and inspection

   - Fundamental prevention of accidental disasters caused by hazardous machines and equipments by developing safety standards through construction and operation of work performance systems as a global safety certification and institution institute

2. Enhancing surveillance system for the protective guards and PPEs market in order to implement effective safety certification system

   - Protection of Korean OSH markets by enhancing market surveillance function against defective uncertified products through implementation of safety certification, self-declaration of conformity system and product performance test systems

3. Prevention of fatal accidents through safety inspection on conveyers

   - Intensive verification upon compliance with protective measures and normal operating conditions, and improvement of systems by reflecting discovered problems upon safety certification inspection standards

4. Reinforced on-site applicability through improvement of safety certification and inspection systems

   - Amended safety rules in order to enable protective measures to industrial robots and conveyers be applied in actual practice by collecting insights from the industry
   - Planned to readjust items subject to safety certification and inspection in preparation of environmental changes in the industry

5. Reinforcement of safety standards in order to essentially secure safety of facility structures for the purpose of preventing workers operating the facility from engaging in unsafe behaviors

6. Development of measures to secure safety for mobile crane and aerial work platform

   - Support to develop new products including financial aids for research and development; enhancement of MDU activities with overseas certification institutions, and help businesses to have competitiveness for export by servicing certification test based on international standards

7. Promoting and supporting the industry related to safety of protective guards and PPEs

   - Support to develop new products including financial aids for research and development; enhancement of MDU activities with overseas certification institutions, and help businesses to have competitiveness for export by servicing certification test based on international standards

8. Manufacturing and expanded use of safety-certified sling products

   - Improvement of safety for use and contribution to export businesses by encouraging acquisition of re-certification and new certification conforming to the latest international certification standards

9. Operation of mobile app system to provide information on safety-certified products

   - Operation of mobile Apps to ensure users to promptly verify information on certified products and manufacturers at the site

Specialized in certification & inspection of safety

Performance of Safety certification, Self-declaration of conformity system and Safety Inspection in 2018

<table>
<thead>
<tr>
<th>Hazardous Machine Equipment</th>
<th>Protective guards and PPEs</th>
<th>S Mark</th>
<th>Hazardous Machine Equipment</th>
<th>Protective guards and PPEs*</th>
</tr>
</thead>
<tbody>
<tr>
<td>41,351</td>
<td>4,743</td>
<td>1,823</td>
<td>11,165</td>
<td>825</td>
</tr>
</tbody>
</table>

* PPEs: Personal Protective Equipments

Next: Goal
APPENDIX

Status of Occupational Accidents in 2018
Organization & Staff
Financial Report
History
Contact Address
**Status of Occupational Accidents in 2018**

**OVERVIEW**

- Of 19,073,438 workers working at 2,654,107 workplace that are eligible for occupational accidents compensation insurance in 2018, 102,305 workers required 4 or more days of nursing and accident rate was 0.54%.
- The Number of workers increased by 2.8% compared to 2017 and occupational accident victims increased by 13.9% and accidents rate increased by 0.06%p year on year.
- From July 2000, the coverage of occupational accidents insurance has expanded from workplace with 5 workers or more to 1 person or more which resulted in sudden increase of accidents rate until 2003 but from then on until 2017 it has showed continued downward trend followed by a slight increase in 2018.

**STATUS ON OCCUPATIONAL DEATHS**

- Occupational deaths were 2,142 persons and of those, work-related accidents were 971 and death from occupational disease were 1,171.
- The fatality rate per 10,000 workers were 1.12‰, increasing by 0.07‰p comparing to 1.05‰ in 2017. Work-related accident rate per 10,000 workers was 0.51‰, 0.01‰p decrease from 0.52‰ in 2017. The type of fatal accidents were 451 work-related diseases (cerebrovascular disease etc.), 455 pneumoconiosis, 376 falls and etc. in order.
- The number of fatalities was on downward trend from 2004 to 2012. From 2012, it increased slightly until 2014 when it started to decrease again. It showed slight increase from 2017. Fatality rate per 10,000 workers showed continued decrease until 2013 which showed sudden and slight increase. It again showed decrease from 2014 until 2017 which started to increase.
• The number of workers suffered from occupational disease in 2018 (including deaths) was 11,473, increased by 2,290 (24.9%) from 9,183 the year before.

• Of these, the number of occupational diseases was 3,368 in 2018 increasing by 314 (10.3%) from 3,054 the year before and the number of work-related diseases was 8,105, 1,979 (32.2%) increase from 6,129 in 2017.

Figure 3 <Number of occupational diseases and morbidity rate by the year>
## Financial Report

### MAIN RESOURCE

Industrial accident compensation insurance and contributions for the prevention fund pursuant to Article 96 (Use of Fund) of the Industrial Accident Compensation Insurance Act

<table>
<thead>
<tr>
<th>Budget Type</th>
<th>2019 (A)</th>
<th>2018 (B)</th>
<th>Increase/Decrease (A-B)</th>
<th>%</th>
</tr>
</thead>
</table>
| Total                                    | 501,878  | 490,236  | 11,642                  | 2.4%
| Industrial accident compensation insurance and contributions for the prevention fund | 499,378  | 487,736  | 11,642                  | 2.4%
| - Contributions                          | 316,817  | 297,301  | 19,516                  | 6.6%
| - Subsidies                              | 74,970   | 68,640   | 6,330                   | 9.2%
| - Intangible assets                      | 937      | 1,001    | -64                     | -6.4%
| - Loan                                   | 106,654  | 122,794  | -16,140                 | -13.1%
| Earned income                            | 2,500    | 2,500    | 0                       | 0%

### EXPENDITURE

<table>
<thead>
<tr>
<th>Sort</th>
<th>2019 (A)</th>
<th>2018 (B)</th>
<th>Increase/Decrease (A-B)</th>
<th>%</th>
</tr>
</thead>
</table>
| Total                                             | 501,878  | 490,236  | 11,642                  | 2.4%
| Financial aid for 'clean workplace'               | 76,855   | 68,525   | 8,330                   | 12.2%
| Loan for accident prevention facilities           | 106,654  | 122,794  | -16,140                 | -13.1%
| Accident prevention by industrial classification   | 47,955   | 47,121   | 834                     | 1.8%
| Safety accreditation or certification             | 6,011    | 6,009    | 2                       | 0.0%
| Hazardous working environment improvement         | 54,916   | 49,026   | 5,890                   | 12.0%
| Workers' health protection                        | 22,743   | 22,736   | 7                       | 0.0%
| Safety and health culture establishment            | 29,124   | 29,094   | 30                      | 0.1%
| Accident prevention facilities construction        | 8,873    | 700      | 8,173                   | 1,167.6%
| Operation of OSH information system               | 5,019    | 5,686    | -667                    | -11.7%
| OSH R&D and international cooperation              | 6,065    | 6,470    | -405                    | -6.3%
| Personnel, operating expenses, etc.               | 137,663  | 132,075  | 5,588                   | 4.2%
History

1987~1990
Foundation
December 1987
Established Korea Industrial Safety Corporation
July 1989
Established Occupational Safety and Health Research Institute

1991~1994
Take-off
October 1991
Held a Korea-Germany occupational safety cooperation meeting
February 1992
Held a Korea-Japan joint meeting on occupational disease prevention
August 1992
Held a tripartite meeting for realizing low-cost & high-efficient workplace with zero accidents
August 1992
10,097,600 people participated in the Zero Accident Signature Campaign
November 1993
Held the 1st OSH awards

1995~1998
Acceleration
1995
• The occupational accident rate of Korea decreased to below 2%
• Headquarters moved to the present location in Bupyeong, Incheon.
December 1995
Completed the construction of Safety and Health Research Center
September 1997
Completed the construction of Industrial Chemicals Research Center
April 1998
Held the 14th APOSHO Annual General Meeting in Seoul, KoreaResearch Center

1999~2009
Growth and Development
December 1999
Celebrated its 12th anniversary and declared new CI
November 2000
Mutually acknowledged the SH management system between KOSHA-BVQI
September 2004
Received ‘Grand Prize’ at the National Productivity Award
December 2004
Completed the construction of Chemicals Safety and Health Center
August 2006
Sponsored ‘No. 1 Escape from crisis’ a TV program on Korea Broadcasting Station
October 2007
Issued the 5,000th safety certification mark (S-mark)
September 2007
declared new CI and Vision
November 2000
Got A grade on public institutions customer satisfaction evaluation

2010~2018
Second Take-off
February 2010
Organized Service Industry Department
December 2011
Declared the new CI and Vision on the occasion of the 24th anniversary
January 2013
Organized Major Accident Prevention Department
January 2014
Organized Partnership Program Department
March 2014
Held the opening ceremony of the new headquarters of KOSHA in Ulsan
Year of 2015
• Got a grade in public institutions’ customer satisfaction evaluation
• Declared new vision
December 2015
Completed the construction of chronic inhalation toxicity test facility
November 2016
Opened the Central Training Center of OSHTI
January 2017
Opened the Occupational Safety and Health Certification Institute
December 2018
Expanded KOSHA’s regional offices from 6 offices to 16 offices
## Contact Address

<table>
<thead>
<tr>
<th>Office</th>
<th>Tel. (+82)</th>
<th>Location</th>
<th>Postal Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Headquarters</td>
<td>(02) 703-0500</td>
<td>4F Jongnang-ro, Jung-gu, Ulsan, Korea</td>
<td>44239</td>
</tr>
<tr>
<td>OSHRI</td>
<td>(02) 703-0500</td>
<td>4F Jongnang-ro, Jung-gu, Ulsan, Korea</td>
<td>44239</td>
</tr>
<tr>
<td>Chemical Substances OSHI Center</td>
<td>(02) 869-0300</td>
<td>10F, 399-gil, Yeongdeungpo-gu, Daedeo, Korea</td>
<td>43122</td>
</tr>
<tr>
<td>OSHI</td>
<td>(02) 703-0500</td>
<td>4F Jongnang-ro, Jung-gu, Ulsan, Korea</td>
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<tr>
<td>OSHC</td>
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<td>4F Jongnang-ro, Jung-gu, Ulsan, Korea</td>
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<tr>
<td>Seoul Regional Office</td>
<td>(02) 711-2800</td>
<td>2F, Beomjeon-ro 2-gil, Yeongdeungpo-gu, Seoul, Korea</td>
<td>47254</td>
</tr>
<tr>
<td>Gangwon Regional Office</td>
<td>(033) 315-1004</td>
<td>2F, Korean Teacher’s Credit Union Building, 2370 Gyeongchun-ro, Chuncheon-gu, Gangwon-do, Korea</td>
<td>44436</td>
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<tr>
<td>Northern Seoul Area Office</td>
<td>(02) 3784-8300</td>
<td>2F, Woori Building, 42 Chipae-gil, Jung-gu, Seoul, Korea</td>
<td>44512</td>
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<tr>
<td>Eastern Gangwon Area Office</td>
<td>(032) 820-2500</td>
<td>2F, 182, Haeundae-gu, Gangneung-si, Gangwon-do, Korea</td>
<td>45212</td>
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<tr>
<td>Busan Regional Office</td>
<td>(02) 529-0510</td>
<td>2F, 1763 Beom-gil, Jungang-dao, Gwangju, Korea</td>
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<tr>
<td>Ulsan Regional Office</td>
<td>(02) 228-0510</td>
<td>2F, Jeongdong-ro, Nam-gu, Ulsan, Korea</td>
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<tr>
<td>Gyeongsang Regional Office</td>
<td>(054) 269-0510</td>
<td>2F, Jungang-dao, Uichang-dong, Changwon, Gyeongsangbuk-do, Korea</td>
<td>51430</td>
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<tr>
<td>Eastern Gyeongsangnam Area Office</td>
<td>(055) 371-7500</td>
<td>2F, Yangsan Labor Complex Building, 53 Namyangsan 2-gil, Dong-myeon, Yangsan, Korea</td>
<td>50635</td>
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<tr>
<td>Gwangju Regional Office</td>
<td>(062) 493-8700</td>
<td>8F, Trade Hall Building, 282 Muju-dao, Ulsan-dong, Gwangsan-gu, Gwangju, Korea</td>
<td>51864</td>
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<tr>
<td>Jeonbuk Regional Office</td>
<td>(063) 240-8500</td>
<td>2F, Ministry of Environment and Labor Complex Building, 251 Geumsan-ro, Dolsan-gu, Jeonju, Jeonbuk, Korea</td>
<td>50164</td>
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<tr>
<td>Jeonnam Regional Office</td>
<td>(052) 288-8700</td>
<td>2F, Hugwang-dao, Samhyang-eup, Muu-gu, Jeollanam-do, Korea</td>
<td>56566</td>
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<tr>
<td>Jeju Regional Office</td>
<td>(064) 797-7500</td>
<td>2F, Small &amp; Medium Business Center, 473 Yeonnam-ro, Jeju, Jeju-do, Korea</td>
<td>42127</td>
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<tr>
<td>Western Jeonbuk Area Office</td>
<td>(063) 460-3800</td>
<td>2F, 482, Juyo-ro, Gunsan, Jeonbuk, Korea</td>
<td>50011</td>
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<tr>
<td>Eastern Jeonnam Area Office</td>
<td>(061) 689-4900</td>
<td>15, Museomjeong-dong, Yeosu, Jeollanam-do, Korea</td>
<td>56460</td>
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<tr>
<td>Incheon Regional Office</td>
<td>(032) 530-5000</td>
<td>4F, Munjeong-ro, Bujeong-gu, Incheon, Korea</td>
<td>21417</td>
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<tr>
<td>Gyeonggi Regional Office</td>
<td>(031) 259-7149</td>
<td>2F, Gyeonggi Small &amp; Medium Business Center, 107 Gangdong-ro, Gwacheon, Gyeonggi-do, Korea</td>
<td>42229</td>
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