



# KOSHA

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# Enhanced Safety and Health Training in Step with Serious Accident Reduction Roadmap

## KOSHA holds 2023 Nationwide Meeting of Training and PR Department Heads



The Korea Occupational Safety and Health Agency (KOSHA, President Ahn Jong-ju) hosted the 2023 Nationwide Meeting of Training and PR Department Heads at the Yeram Human Resources Training Center in Daejeon, starting from 10:00 AM on Friday, January 13. The meeting was organized to establish the way forward for training and public relations activities in 2023 as a preemptive response to the Ministry of Employment and Labor's recently announced roadmap for reducing serious accidents in workplaces.

On this day, the head of the training and PR departments at KOSHA's thirty frontline organizations nationwide were brought together to discuss the operational performance priorities going forward and pending issues for 2023.

The main implementation tasks discussed were: (1) expand and reinforce training at worksites in step with the serious accident reduction roadmap, (2) establish preventative systems at worksites that are linked with KOSHA's industrial accident prevention program, (3) strengthen training on building safety and health management systems at small workplaces in each locality, (4) improve the development of accident prevention contents linked with the industrial accident prevention program and tailored to specific age groups.

Importantly this year's focus is on reorganizing the training program for transitioning over to the "self-regulated (accident) prevention system" based on risk assessment. Training will be promoted for building safety and health management systems at small workplaces in step with the extended enforcement of the Serious Accident Punishment Act. In addition, plans call for expanding and reinforcing training tailored for specific regions and centered on worksites in order to prevent fatal accidents at the local level.

## Enhanced Safety and Health Training in Step with Serious Accident Reduction Roadmap

### KOSHA holds 2023 Nationwide Meeting of Training and PR Department Heads

The results of this meeting are being integrated at KOSHA, and the reorganized training and PR operations will be pursued companywide.

Training and PR Director Choi Seong-won noted: "Safety and health training within the roadmap for reducing serious workplace accidents plays a very key role. The division chiefs in charge of training and PR operations nationwide have put their heads together and deliberated on the issues, and the results they have come up with serve as the foundation for vigorously promoting our operations this year, and they will contribute to fatal accident prevention."



# “Risk Assessment a Key Method for the Self-regulated Accident Prevention Program”

**KOSHA President Ahn Jong-ju made his first inspection of exemplary worksites in the new year examining the status of risk assessment implementation**



Korea Occupational Safety and Health Agency (KOSHA, President Ahn Jong-ju) visited the Ssangyong Remicon Co. plant-site at Seongnam, Gyeonggi Province. The inspectors examined the current state of risk assessment activities and inspected the degree to which the self-regulated accident prevention program was being spread to worksites.

The inspection on this occasion indicates the importance of establishing the self-regulated accident prevention program, which is a key component of the roadmap for reducing serious accidents in the workplace that was announced at the end of last year. The visit was performed to determine how well worksite-oriented risk assessment is being carried out.

The Ssangyong Remicon plant in Seongnam produces ready-mixed concrete. KOSHA officials were here in 2022 to provide consulting support on building a system for managing worker safety and health concerns, and thanks to their assistance, the operation was recognized as an exemplary workplace for risk assessment for the year.

The establishment and operational status of the self-regulated accident prevention program, a key component of risk assessment activities, were examined at the worksite on this day, to include how well harmful/ risk factors have been identified and what improvement measures have been created. The inspection also covered the degree to which the workers are participating in the risk assessment activities.

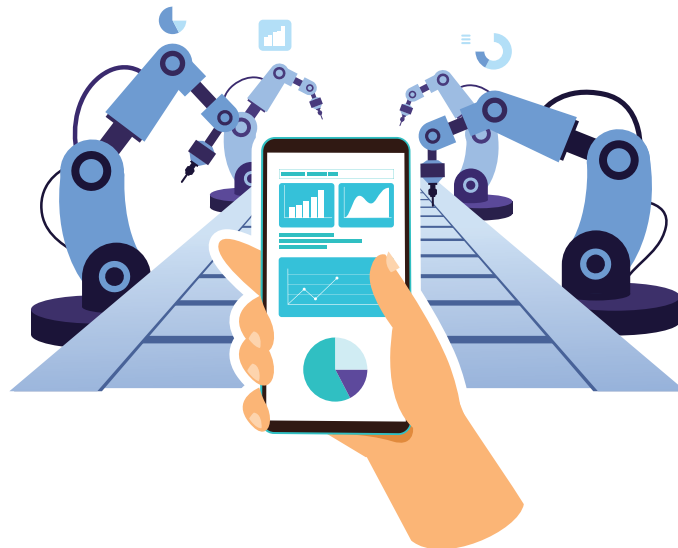


## “Risk Assessment a Key Method for the Self-regulated Accident Prevention Program”

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Also under inspection were the worker safety and health measures being taken with respect to the facilities and processes for producing ready-mixed concrete. The inspectors listened to the opinions of people onsite regarding ways to improve the risk assessment program.

KOSHA president Ahn Jong-ju stressed that risk assessment is a key measure for the self-regulated prevention system. He went on to announce, “We will work to expand the participation of labor and management so that risk assessment activities can be easily and simply conveyed to the workers on the industrial sites and to step up preoperational safety inspections.”



# Guidebooks Now Available on Cleaning, Maintenance & Repair and Safety for Electronics Industry

Manuals (16 types in total) on safety and health are being produced each year for electronics industry workers through 2025



The Korea Occupational Safety and Health Agency (KOSHA, President Ahn Jong-ju) is disseminating its *Health & Safety Guidebook* both online and offline, starting from February 10 (Friday). The publication provides information on the harmful/ risk factors that exist in operations performed by subcontractors (materials, parts, equipment, maintenance & repair, environmental treatment, and transport companies) that serve the electronics industry (makers of semiconductors and displays).

KOSHA's Smart Occupational Safety & Health Technology Institute is in the process of publishing a *Health & Safety Guidebook* series in order to offer information of harmful/ risk factors to workers at subcontractors that serve semiconductor and display makers. These personnel have relatively weaker access to safety and health related information than do the people who work at main contractors within the semiconductor-display industry ecosystem.

The development of *Health & Safety Guide for Cleanroom Cleaners* and *Health & Safety Guide for Waste Gas Treatment Equipment Maintenance Workers* has already been completed, serving as the initial output of this extensive publishing project. Hard copies of these texts are being distributed to the main contractors for semiconductors and displays,\* while electronic files with the same content have been posted on the KOSHA website\*\* for anyone to download free of charge.

\* Main contractee : Samsung Electronics, Samsung Displays, LG Displays, DB Hitek, SK Hynix

\* KOSHA website (<https://kosha.or.kr>) → Business → Occupational Safety → Electronics Industry Ecosystem Safety and Health Model

# Guidebooks Now Available on Cleaning, Maintenance & Repair and Safety for Electronics Industry

Manuals (16 types in total) on safety and health are being produced each year for electronics industry workers through 2025

Each safety & health guidebook offers details on the characteristics for each job being covered, the causes of harmful/ risk factors, and guidelines on accident prevention.

KOSHA is scheduled to continue developing guidebooks on maintaining and repairing each type of facility and equipment used in all electronics industry production processes. A total of sixteen guidebooks on safety and health related to operations with harmful/ risk factors will be produced through 2025. Thus, employees at subcontractors within the electronics industry will be provided each year with new kinds of essential information on harmful/ risk factors they face.

\* Production schedule: 2022 (2 volumes), 2023 (6 volumes), 2024 (4 volumes), and 2025 (4 volumes)

## List of and production schedule for safety and health guidebooks on operations with harmful/risk factors

Sequence	Safety and Health Guide title and subject	Production schedule
1	Health and Safety Guide for Cleanroom Cleaners	2022
2	Health & Safety Guide for Waste Gas Treatment Equipment Maintenance Workers	
3	Maintenance and repair of fab production equipment	2023
4	Cleaning of fab production equipment	
5	Cleaning of various other fab equipment	
6	Maintenance & repair of infrastructure equipment	
7	Cleaning of infrastructure equipment	
8	Waste gas treatment and treatment on consignment	
9	Operation of infrastructure equipment	2024
10	Installation, operation, and dismantlement of fab production equipment	
11	Hook-up of fabs	
12	Installation, operation, and dismantlement of infrastructure equipment	
13	Warehousing and supply of materials (chemical substances)	2025
14	Handing of chemical substances at fabs	
15	Handling of chemical substances inside infrastructure	
16	Analysis and testing labs at fabs	

\* Fab: the area inside the cleanroom; infrastructure: the area beyond the cleanroom



## Guidebooks Now Available on Cleaning, Maintenance & Repair and Safety for Electronics Industry

Manuals (16 types in total) on safety and health are being produced each year for electronics industry workers through 2025

Smart Safety & Health Institute of Technology Director General Kim Gyu-wan says: “Many of the subcontractors working within the electronics industry (semiconductor, display businesses) are relatively less able to obtain occupational safety and health information. We are producing and distributing safety & health guidebooks for subcontractors that perform jobs that expose workers to harmful/ risk factors, thereby ensuring workers’ right to know and reducing industrial accidents.”



# Online Service Offers Estimates on Number of Workers Exposed to Occupational Cancer

Approximate data provided on 20 carcinogens across 233 different industries



A program is provided that can appraise the number of workers who have been exposed to carcinogens at industrial sites.

The Occupational Safety and Health Research Institute (OSHRI, Director General Kim Eun-A), which is part of the Korea Occupational Safety and Health Agency, has developed the K-CAREX (“Korean CARcinogen Exposure”) program and offers it online, allowing users to estimate the scale of exposure to substances that can cause cancer in humans and evaluate the number of workers who have been so exposed.

\* CAREX: A program developed by combining the carcinogenic factors registered by the International Agency for Research on Cancer (IARC) at the Finland Institute of Occupational Health (FIOH) with the number of workers exposed by industry in Finland.

› K-CAREX is designed to deduce the number of workers exposed to carcinogens in individual Korean industries.

- The analyses of OSHRI data measuring work environments, data on special health checks, and bigdata collected in surveys on workplace environment conditions were coupled with the assessments of experts to approximate the number of Korean workers who have been exposed to specific carcinogens.
- This program can estimate the number of workers exposed to any of the 20 listed human carcinogens across 233 different industries.
- The exposure basis considers the time for solid cancer to form after exposure to specific carcinogenic substances, and the estimates can be made by applying the number of workers in 2010 and the percentage of those workers who were exposed to carcinogens.

\* Solid cancer: cancer that forms a solid tumor, or tissue mass

## Online Service Offers Estimates on Number of Workers Exposed to Occupational Cancer

Approximate data provided on 20 carcinogens across 233 different industries

- Importantly, the data on carcinogen exposure have been offered in visual form, making it easy to compare with each of 20 carcinogens on the list.

› For example, if the user selects a sub-category business, the program shows data on worker exposure to the

- By selecting (861) hospital among the sub-category businesses, the user can estimate that 12.0% (45,390 persons) were exposed to radiation, 3.53% (13,333 persons) were exposed to formaldehyde, and 2.5% (9,456 persons) were exposed to ethylene oxide.

› However, the data estimates do not include information on exposure levels, work processes or occupation types. Thus limitations must be considered when the program is used, and care is needed when interpreting the findings.

Occupational Safety and Health Research Institute Director General Kim Eun-A says, "Data estimates on the scale of carcinogen exposure by industry type can be used in various disease prevention projects. Going forward, will continue to do research and upgrade contents, and we remain committed to ensuring that all working people stay healthy."





# KOSHA NEWS

Protecting Worker's  
Life and Health



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application should be made to the International Cooperation Center,  
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