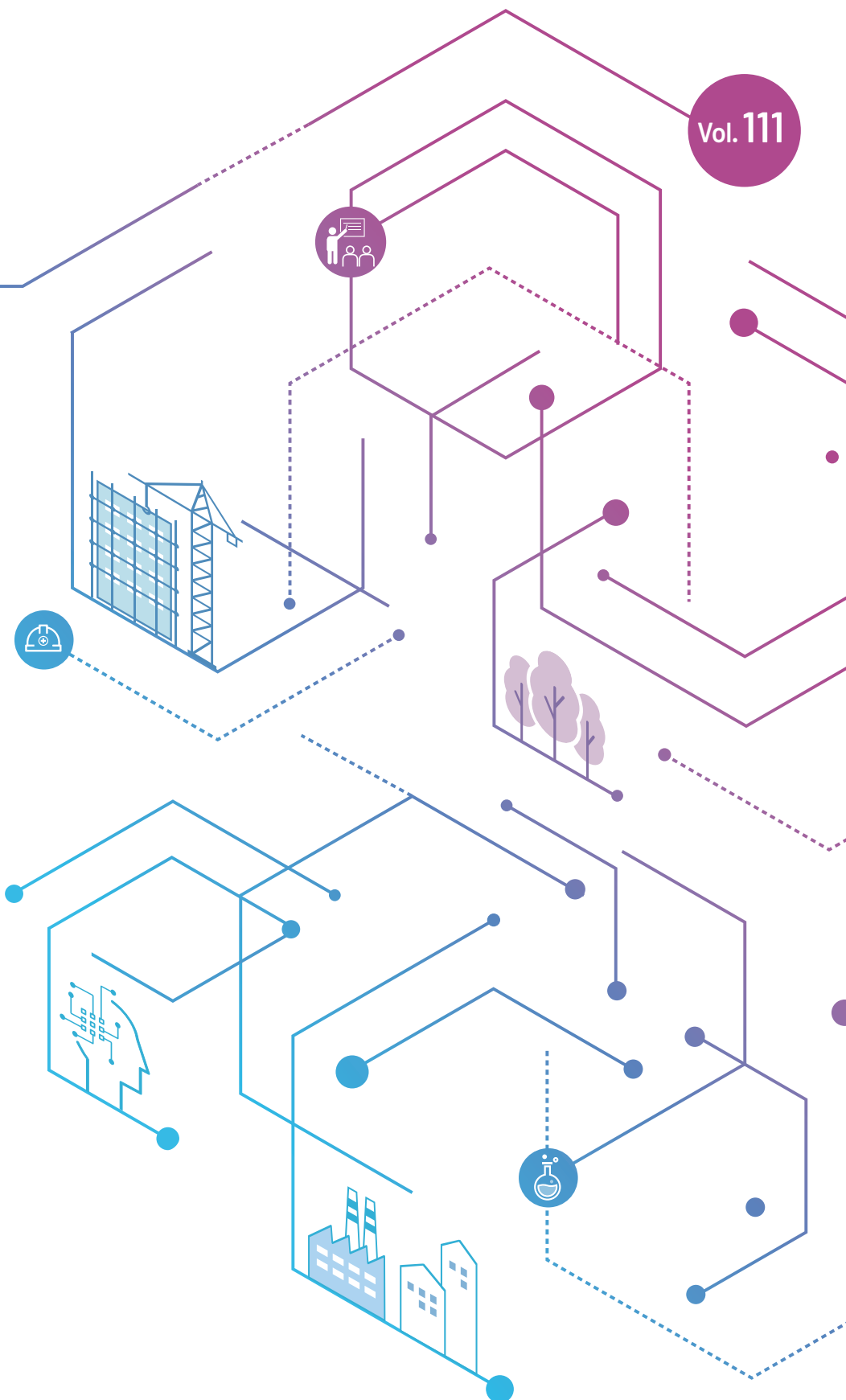


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KOSHA NEWS

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Protecting Worker's
Life and Health



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In 2021, what's new in KOSHA?

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In 2021,

What's new in KOSHA?

This year, KOSHA extensively reorganize its businesses in order to better the working environment for the safety and wellbeing of workers. Major Projects of KOSHA come in four(4) categories :

1. Projects to Reduce Fatalities
2. Financial Support and Contracted Projects
3. Projects in accordance with Regulations and Policies
4. Education and Innovation Projects

In the June issue of KOSHA NEWS, we will introduce KOSHA's major projects in accordance with Regulations and Policies. Of all 24 major projects related to OSH Regulations and Policies, we will touch the 12 projects in this issue first.

Projects in Accordance with Regulations and Policies

Fortified Prevention of Delayed Submission or Failure to Submit Hazard Prevention Plans in Manufacturing Industry

Conducting of measures to prevent late or non-submission of plan and find businesses that have not submitted their plan

Program

Review and Verification of Hazard Prevention Plans
(Manufacturing Industry, etc.)

Major changes --- **Fortified prevention of late/non-submission of plan and discovery of non-submitting businesses**

- This program increases businesses awareness of the 'harm and hazards prevention plan' submission system through diverse PR activities/ notifications. The program has been carefully revised/supplemented to ensure that increased discovery of non-submitting businesses decreases non-submissions.
- HQ to be responsible for PR and asking cooperation to safety and health agencies, private consignment companies, and safety check institutions to reduce the workload of the KOSHA affiliates.

Preliminary procedure

Prevention of delayed or non-submission of plan

Step 1	Step 2	Step 3	Step 4	Step 5
Conduct PR via diverse media(safety and health periodicals, newspapers, electronic displays, leaflets/ OPS, etc.).	When carrying out a program, request that related institutions notify employers of the harm and hazards prevention plan system.	Ask local governments, when issuing consent/permit for construction project, to inform partners (if relevant) of the need to submit a plan.	Issue confirmation form to businesses that ask whether they are required to submit a plan.	Engage in consistent discussion through Seumter*, provide notifications on submission process, and continue to track/monitor businesses that are required to submit a plan (including those whose status is "pending").

* Seumter : An on-line lookup system for construction administration. It provides the status of building permits and registers.

Fortified Prevention of Delayed Submission or Failure to Submit Hazard Prevention Plans in Manufacturing Industry

Program

Review and Verification of Harm/risk Prevention Proposal (Manufacturing Industry, etc.)

Follow-up procedure

Discovery of non-submitting businesses

Step 1	Step 2	Step 3	Step 4	Step 5
Ask safety and health agencies and private consignment companies to report non-submitting businesses to KOSHA.	Ask safety check institution to report to KOSHA any discoveries of exhaust systems for which a plan has not been submitted.	Ask businesses that have recently applied for occupational accident insurance to submit questionnaire for businesses that are required to submit a plan.	Check whether businesses that recently signed an electricity contract with KEPCO have submitted their plan.	Find non-submitting businesses by conducting patrol checks or working with locally-specialized programs.

--- Improved effectiveness of fatalities prevention system

- Follow-up management via patrol checks (as done during program's trial operation) to overcome the limitations of a single check
 - ↳ Inspection conducted on whether businesses (those that have moved or constructed a new facility and/or have fewer than 50 employees) whose 2019 plans were approved are actually implementing the safety and health measures stated in their proposal
 - ↳ Fee required to address factors that introduce high-risk of fatalities (e.g. dangerous machinery and outdated processes) to be linked with KOSHA's financial support program



Timely Confirmation of Hazard Prevention Plans Submission by Construction Industry

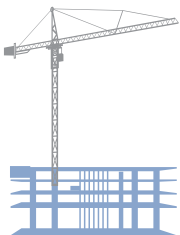
Managing the construction schedule and monitoring the period planned to carry out dangerous works with potential to cause large-scale accidents

Program

Review and Verification of Hazard Prevention Plans Submitted by Construction Businesses

Major changes

- ◇ **Adjustment of program quantity to reflect circumstances of construction industry and ensure timely submission of hazard prevention plans for all ongoing projects**
 - 22,500 times in 2020 → 18,500 times in 2021
- ◇ **Checking the dangerous works with potential to cause large-scale accidents in timely manner**
 - Consistent monitoring of anticipated dates for large-scale, high-risk construction projects (designated during review process) via on-site monitoring system and ERP* and check of whether such dates provide appropriate time for the projects to be carried out.
 - * Monthly check management system and list of potentially dangerous, large-scale construction projects
- ◇ **Strengthening of connections to financial aid-giving programs and submission of requests for supervision of faulty facilities on work sites**
 - Review : Program encourages construction sites with contract value of less than USD 4.5 million that are planning to install steel tube scaffolding to change to system scaffolding. If necessary, it connects them to support programs that subsidize safety (fall prevention) facilities for construction sites.
 - Verification : For construction sites that have changed from system scaffolding to steel tube scaffolding and whose fall prevention measures are insufficient on-site supervision is requested immediately.



Expansion of Subjects of Reliability Assessment of Working Environment Monitoring

Addition of Seven Substances of Special Interest

Program

Reliability Assessment of Working Environment Monitoring

Major changes

---⬢ Of the target number of businesses (300), the assessment measures the quantity of harmful substances found at the 200 businesses that maintain amounts of harmful substances below the legally permitted amounts. For the remaining 100 businesses, it measures all other substances discovered.

- Harmful substances measured for businesses that maintain amounts of harmful substances below the legally permitted amounts: 13 substances (as designated prior to amendment) and 7 of the 24 substances added by the amendment that are designated as “special interest”

* 13 existing substances : hexavalent chromium (chromium-6), lead and its inorganic compounds, nickel compounds (insoluble), dimethylformamide, benzene, 2-bromopropane, asbestos, carbon disulfide, cadmium and its compounds, toluene-2,4-diisocyanate, toluene-2,6-diisocyanate, trichloroethylene, formaldehyde, n-Hexane

* 7 added substances : 1,2-dichloropropane, 1,3-butadiene, ethylene oxide, mercury and its inorganic compounds, acrylonitrile, trichloromethane, sulfuric acid (below a pH level of 2.0)

---⬢ If requested by the business or deemed necessary by a KOSHA employee during the preliminary investigation or detailed assessment, the program may be implemented in conjunction with KOSHA’s Chemical Substance Exposure Notification program.



---⬢ Businesses that need to improve their fatalities prevention equipment or working environment may undertake this program in conjunction with a financial support program.

Expansion of Scope of Businesses Eligible to Be Assessed by Comprehensive Review Bid System

Expansion of scope of businesses whose accident/fatality rate per 10,000 people is required to be assessed by Comprehensive Review Bid System (CRBS)

Program

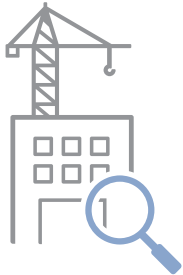
Calculation of CRBS Construction Safety Indices

Major changes

---⬢ Expansion of scope of businesses whose accident/fatality rate per 10,000 people is required to be assessed by CRBS

- **As-is** general construction businesses (13,000) → **To-be** general/specialized construction businesses (70,000)

* For specialized construction businesses, trial program will be operated in 2021.



---⬢ Addition of assessment of construction companies' occupational accident prevention activities to curriculum

- Acceleration of early establishment of this program by adding "introduction/guideline on creation/implementation of safety and health plan" to training curriculum

Finding/management of Businesses Eligible for Write-up of Process Safety Management Report

Identify companies requiring PSM via cooperation with institutions authorized to handle harmful substances

Program

Review and Verification of Process Safety Management

Major changes --- Identification and management of businesses requiring PSM

- Consistent identification/management of PSM-eligible businesses (e.g. flammable substance manufacturers) in cooperation (at least once every six months) with institutions authorized to handle harmful substances (local fire stations, etc.)

--- Management of “gray areas” of PSM System

- Consistent searching for and conducting of accident prevention activities for safety “gray areas” (facilities using ammonia or chlorine, large oil storage facilities, large public facilities (with boilers), port tank terminals, etc.) (in conjunction with outcomes of 2020 inspections/checks)

--- Conducting of debate on technology to strengthen the expertise and quality of feedback of in-house stakeholders and relevant staff (four occasions)

- Re-designed to be operated with two-part approach (special lecture on technology standards and improvement of review standards) to improve the expertise and capabilities of screening personnel



--- Updated safety and health technology regulations, according to Korean government’s Green New Deal, on responding to harm/risk factors of hydrogen and secondary battery industries

Modification of Harmful Processes at Businesses with High-risk of Chemical Accidents

Conducted In conjunction with Safety Investment Innovation Program

Program

Check and Safety Diagnosis of Facilities Handling Harmful Chemical Substances

Major changes

---⬢ Adjust the number of cases (3,550 → 3,268)

- Change in number of projects due to increased number of safety diagnoses (150 → 268)

---⬢ Change in standard used to calculate safety diagnosis outcomes

- Standard for external influence assessment (unit process): one request filed per safety diagnosis 3M/D

---⬢ Linkage with Safety Investment Innovation Program (improvement of dangerous processes) for businesses with high-risk of chemical accidents or that have already experienced safety-related incompatibilities

- Key target of financial resources: improvement of dangerous processes for “Ppuri industries*” (surface treatment)

* Basic manufacturing (processing) industry that manufactures materials into parts and produces parts into finished products, such as casting, molding, welding, and heat treatment.



Safety Certification for Dangerous Machines, Tools, and Equipment

Adjustment of safety authentication-issuing institution

Program

Safety Certification for Dangerous Machines, Tools, and Equipment

Major changes

---○ Adjustment of safety certification-issuing institutions



- Redistribution of cases (Incheon → Gyeonggi-do) based on founding of Safety Certification Department at Gyeonggi HQ

※ Includes : document review, review of technical skill and manufacturing system, product review, confirmation (double-check) review, filing of self-regulatory safety check, and product manufacturing process

Safety Inspection of Dangerous Machines, Tools, and Equipment

Adjusted number of cases and expanded conducting of on-the-spot inspections

Program

Safety Inspection for Dangerous Machines, Tools, and Equipment

Major changes --- **Adjusting the number of projects designated to receive safety inspection (45,538 → 33,700)**

- Decrease in target number of projects (moveable crane, aerial work platform : transferred to private institution)

※ Includes : safety inspections, recognition of voluntary inspection programs, and number of technical instruction sessions provided and safety checks conducted for machines that have caused multiple accidents

- Redistribution of cases (Incheon → Gyeonggi-do) based on founding of Safety Certification Department at Gyeonggi HQ

--- **Expansion of on-the-spot inspections to all machine types and increase in number of inspections (100 → 300)**

- Objective : to check whether safety inspection-eligible equipment/ machines are being properly maintained

※ Includes : safety inspections, recognition of voluntary inspection programs, and number of technical instruction sessions provided and safety checks conducted for machines that have caused multiple accidents



Expansion of On-site Technical Instruction Provided via Safety and Health Cooperation Program

On-site technical instruction conducted for approved companies in 2021

Program

Provision of Technical Instruction via Safety and Health Cooperation Program

Major changes

- ◇ **Increased number of cases to strengthen support provided to high-risk, vulnerable subcontractors**
 - 700 businesses in 2020 → 900 businesses in 2021

- ◇ **Expansion of on-site technical instruction to strengthen substance of program**
 - On-site technical instruction conducted in 2021 for approved companies
 - ↳ In consideration of staffing situation of first-line-of-defense companies, technical instruction* conducted for up to 20 percent of subcontractors per company.
 - * To ensure efficient implementation, program linked with risk assessment, patrol checks, and Safety Investment Innovation Program.
 - If a company has over 1,000 employees or at least 10 participating subcontractors, technical instruction is done by at least two instructors.

- ◇ **Change of requirement for review by assessment committee to ensure credibility of received grade**
 - 2021 : grade for entire work site receiving technical instruction decided to be determined by company's assessment committee
 - ※ Companies with a score of under 90 for the outcomes of the previous year's technical instruction can be confirmed without a meeting of the assessment committee [improving on the previous practice of only submitting Grade A cases (90 points or higher) to the committee and designating the top 10 percent of those companies].



Strengthening of Support for Risk Assessment Consultation

Check of conditions for which risk assessment is conducted (and consultation provided) for businesses with high risk of fatalities

Program

Consultation on and Accreditation of Risk Assessment

Major changes ---◇ **Adjustment of number of cases to concentrate on developing companies' ability to decrease fatalities risk.**

- 15,000 in 2020 → 14,000 in 2021

---◇ **Strengthening of consultation support by conducting patrol checks of strategic targets**

- Outcomes are poor due to sharp decline in consultation applications in 2020 (due to economic downturn caused by COVID-19 and concerns about escalation).

↳ ▲ Companies with high fatality risk were designated as strategic targets,* after which unannounced visits were made to inspect the conditions for which a risk assessment is conducted and provide professional consultation. ▲ Companies with extensive histories of on-site technical instruction, companies that implement work-study programs, and companies that have completed the training required for business owners to receive worker compensation insurance were encouraged to apply for consultation and provided with priority support.



* Companies that responded in the 2019 Korea Working Conditions Survey that they did not conduct risk assessments (falls, being caught in/between machinery, collision, asphyxiation, etc.).

Assessment and Verification of Safety and Health Measures for Projects Employing Subcontractors

Verification of whether OSH standards designated for the programs employing subcontractors are being followed

Program

Timely Response to Core Issues of Occupational Health
(Assessment and Verification of Safety/health Measures for Projects Conducted by Employing Subcontractors)

Major changes

- **Conducting of safety and health assessment on safety/health measures taken for projects that employ subcontractors**
 - If a company operating a project with a subcontractor requests a safety and health assessment, the assessment may be conducted after prior negotiation with KOSHA. Assessment may be conducted by an outside expert.
 - ※ Article 58-1: Health Assessment, Article 59-1: Conducting of Comprehensive Assessment

- **Verification of whether subcontractor approval standards are being followed (and also of technical issues)**
 - Creation of a team tasked with verifying whether outcomes of safety/health assessments correspond to subcontractor approval standard and, for comprehensive assessment, document screening conducted on safety of work processes that involve a subcontractor.
 - ※ Technical issues are reviewed within seven days of review request and reported to relevant local government office.

- **Verification of whether Ministry of Employment and Labor's subcontractor approval regulations have been followed and whether follow-up management is being done adequately**
 - Verification of company's compliance with subcontractor approval system and standards for subcontractor approval and submission of requests to remove chemical substances are done by a team of two people (KOSHA employee and supervisor from local government office).



Support for Improving Call Center Working Environment

Oversight of improvements for establishment of COVID-19 prevention system and protective measures for customer service employees

Program

Timely Response to Core Issues of Occupational Health (Support for Improvement of Call Center Work Environments)

Major changes

---◇ Creation of database on operation status of call centers

- Identification of operational status of call centers in a particular district/region by utilizing call center-operating institutions, local governments, and other related institutions

※ Headquarters provided basic data on call center operators and telemarketing offices.

---◇ Oversight of improvements for establishment of COVID-19 prevention system and protective measures for customer service employees

- Assessment of whether legal protective measures have been implemented and extent of infectious disease prevention/response measures using checklist.

- Provision of additional guidance if ability to respond to risk is judged to be “insufficient” or in the event financial support is required.

※ Provision of guidelines on: 1) how to assess smart ventilation management and 2) creating an office environment that is conducive to infectious disease management.

---◇ Linkage of call centers requiring improved work environment for consultants with financial aid programs

- If on-site improvements are deemed necessary [e.g. high-risk environment (death)], connection with a financial aid program is provided to prevent infections in the event of an infectious disease outbreak (e.g. COVID-19).

※ Provided materials : desk dividers, contactless thermometers, thermal cameras, automatic hand sanitizer dispensers



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