

National Profile of Taiwan Occupational Safety & Health

(Taiwan, R.O.C.)



OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
MINISTRY OF LABOR, TAIWAN



Taiwan (R.O.C) is committed to creating a “safe, reassuring, and stable” labor environment for all. This is aimed at promoting and improving healthy workforce, friendly workplaces, accident insurance, and occupational safety and health standards, to contribute to the SDGs.

The Occupational Safety and Health Administration (OSHA), under the Ministry of Labor (MOL), hereby presents the National Report on Occupational Safety and Health in accordance with the framework of the International Labor Organization (ILO) of the United Nations.



OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
MINISTRY OF LABOR, TAIWAN

Table of Contents

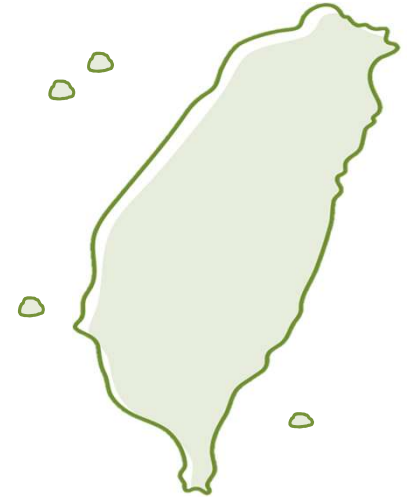
- 1. Taiwan at a Glance**
- 2. OSH Vision & Framework**
- 3. Legal Framework**
- 4. Competent Authority**
- 5. Statistics**
- 6. Execution & Results**
- 7. Implementation Programs**
- 8. Partnership & International Engagements**
- 9. Professional Database & Tools**
- 10. Emerging Issues & our Challenges**
- 11. References**



https://www.tpedoit.gov.taipei/News_Content.aspx?n=603755835E928BED&sms=72544237BBE4C5F6&s=988960D2C77F76FE

Taiwan at a Glance

Taiwan



- **Where:** Taiwan (R.O.C) is located on the southeast coast of the Asian continent, along the western coast of the Pacific Ocean, between Japan and the Philippines, occupying a central position within the East Asian island arc.
- **Land:** 36,197 square kilometers (about the size of the Netherland)
- **People:** about 23.4million population (August, 2023)
- **Capital City:** Taipei City

<https://www.taiwan.net.tw/m1.aspx?sNo=0027009>



OSH Vision & Framework

Visions

Ensuring a safe, healthy, and comfortable working environment for everyone.

OSH Vision & Strategy

1. Continuously lowering occupational accident rates to protect basic labor human rights.
2. Creating a decent working environment to promote labor-management harmony and ensure the physical/mental health of workers.
3. Optimizing the compensation, diagnosis and therapy, and rehabilitation systems for workers suffered from occupational accidents.
4. Assisting industries in risk control to ensure workplace safety.



OSH Vision & Framework

Legal Development & Formation

1. **Calling the National Advisory Council:** The Ministry of Labor convenes policy recommendations with representatives from labor, management, government agencies, scholars, experts, and worker organizations.
2. **Drafting & Amendment:** After the draft bill is formulated, relevant experts, departments, management, labor, and organizations are invited to participate in public hearings or feedback sessions to gather opinions and make revisions.
3. **Review & Legislative Process:** The legislature deliberates, with various stakeholders expressing concerns and positions on the issues. The bill undergoes itemized review, discussions, and amendments, and is put to a vote. After passing the vote, the bill is formally implemented following the President's proclamation.

Implementation & Enforcement

1. **The OSHA, MOL and the authorized labor inspection offices are responsible for** overseeing and enforcing regulations, by conducting inspections, examinations, and investigations of workplaces.
2. **Business entities are obligated to report** major occupational accidents.
3. **For violations of regulations by business entities, supervisory authorities may impose administrative sanctions** such as fines, suspension of operations, and other measures as specified by law. Criminal penalties are referred to judicial authorities for prosecution.
4. **Competent authorities assist in** promoting OSH education, training, and advocacy to enhance awareness and capabilities among business entities and workers.

OSH Vision & Framework

Enforcements and Employer's Proactive Measures

1. Inspecting high-risk, highly non-compliant, and high-occupational-accident business units and continuously monitoring improvement progress.
2. Providing measures such as education, training, visits, counseling, consultation, and observation through OSH families, promotion associations, safety partners, and larger enterprises supporting smaller businesses.
3. **The Ministry of Labor offers small grant subsidy to SMEs to improve OSH facilities.**

National OSH Recognitions

- National OSH Awards
- Public Construction Excellent OSH Implementation Awards
- Five Star OSH Implementation Organization/Institutions
- Excellent OSH Implementation Personnel and Organizations
- April 28th the Annual World Day for Safety and Health at Work
- National OSH Week Campaign

Legal Framework

Constitutional OSH & Labor Rights

The **Constitution Article 15 and 153, 154** provide a basic framework and guiding principles for OSH and labor conditions protection, to ensure adequate protection and respect for Workers' Rights.

Prime Labor and OSH Laws

- **Occupational Safety and Health Act:** Protection of OSH and prevention
- **Labor Inspection Act:** Enforcement and Supervision for sound and fair workplaces
- **Labor Occupational Accident Insurance and Protection Act:** Ensures compensation, support, and safety in workplace accidents, including prevention, diagnosis and rehabilitation.
- **Labor Standard Act:** basic and fair labor rights/conditions, labor relationship

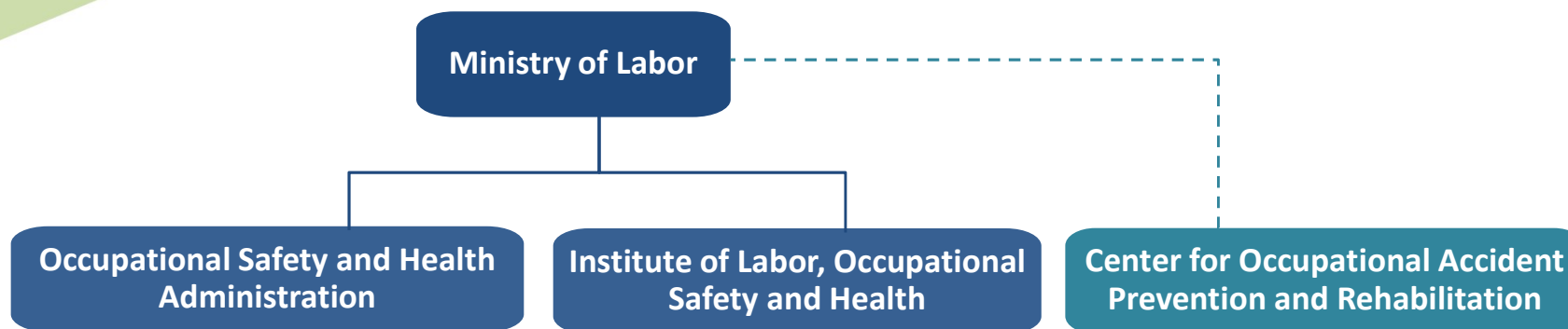
Regulations and Standards of OSHA & Interagency

- | | | |
|---------------------------------|-------------------------------|------------------------------|
| ■ National Standards | ■ Factory Management Act | ■ Building Act |
| ■ Fire Protection Act | ■ Pesticide Management Act | ■ Construction Act |
| ■ Toxic & Concerned Chemicals | ■ Waste Disposal Act | ■ Mining Safety Act |
| ■ Indoor Air Quality Act | ■ Industrial Explosives Rules | ■ Government Procurement Act |
| ■ Ionizing Radiation Prevention | ■ Food Safety and Sanitation | ■ Electricity Act |



Competent Authority

Official Organizational Chart of Occupational Safety and Health



Note: In order to promote the sustainable development of workplace safety and health and assistance services for workers suffered from occupational accidents, the Ministry of Labor fully funded and supervised the establishment of the Center for Occupational Accident Prevention and Rehabilitation. The Center was inaugurated on April 29, 2022, and commenced operations on May 1, 2022.

Functions of the Organization

- **Occupational Safety and Health Administration (OSHA):** Responsible for national occupational safety, health, and rehabilitation policy planning and implementation.
- **Institute of Labor, Occupational Safety and Health:** The sole government agency for labor policy and occupational safety and health research in the country, focusing on monitoring industry developments. It utilizes research findings to assist businesses in applying and implementing safety and health management practices.
- **Center for Occupational Accident Prevention and Rehabilitation (COAPRE):** A foundation promoting national policies for occupational accident prevention and rehabilitation. It assists in managing occupational accident prevention and rehabilitation services for workers.



Competent Authority

Duties of OSHA

1. Formulate policies related to OSH.
2. Formulate policies related to labor inspections.
3. Formulate policies related to the protection of workers in occupational accidents and disasters.
4. Plan, promote, and manage the OSH system.
5. Promote, execute, and supervise OSH and labor condition inspections.
6. Promote and manage worker health promotion, occupational disease investigation, appraisal, and prevention.
7. Promote the prevention of occupational accidents, diagnosis and treatment of occupational injuries and diseases, as well as rehabilitation for injured and ill workers.
8. Other matters related to OSH, labor inspections, and protection of workers in occupational accidents and disasters.



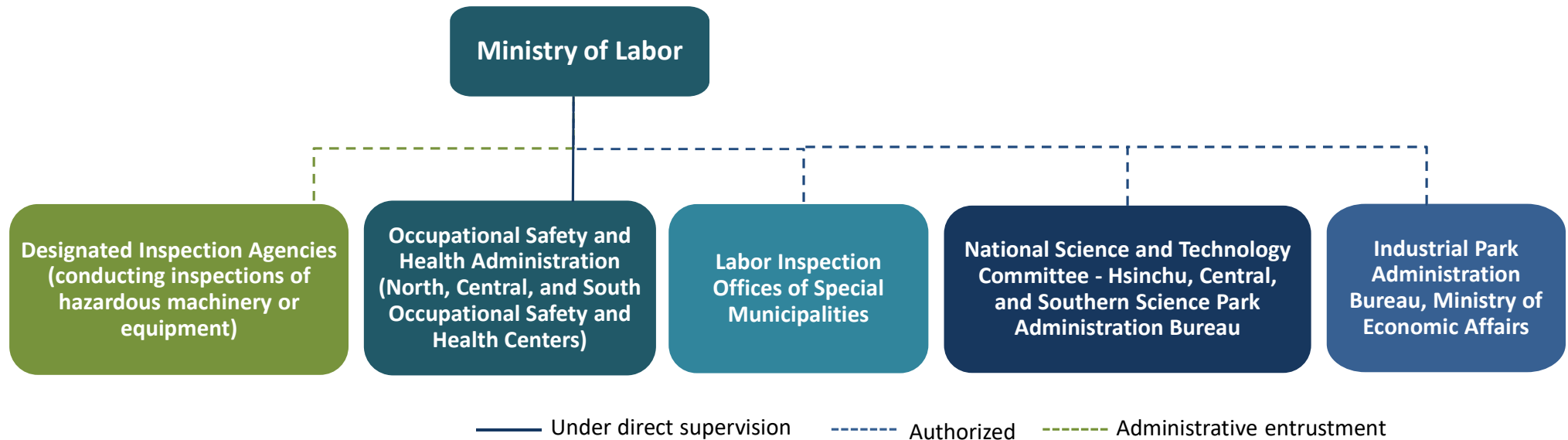
Competent Authority

Interagency Cooperation

- **Ministry of Economic Affairs (MOEA):** Promotes industry safety and health-related policies, and establishes relevant standards, regulations, and examinations/tests.
- **Ministry of Health and Welfare (MOHW):** Promotes occupational disease prevention and health promotion, and provides professional knowledge and guidance.
- **Ministry of Environment (MOENV):** Manages and monitors toxic substances and hazardous materials in the workplace.
- **Ministry of Transportation and Communications (MOTC):** Ensures safety and accident prevention measures in the transportation and related sectors.
- **Ministry of The Interior (MOI):** Collaborates in overseeing workplace fire safety, construction safety, and ensures effective implementation of workplace accident prevention.
- **Ministry of National Defense (MND):** Ensures occupational health and safety for military personnel within the military-related operation.
- **Ministry of Education (MOE):** Promotes occupational safety education in schools and provides relevant training and courses.

Competent Authority

Safety and Health Inspection Organizational Chart

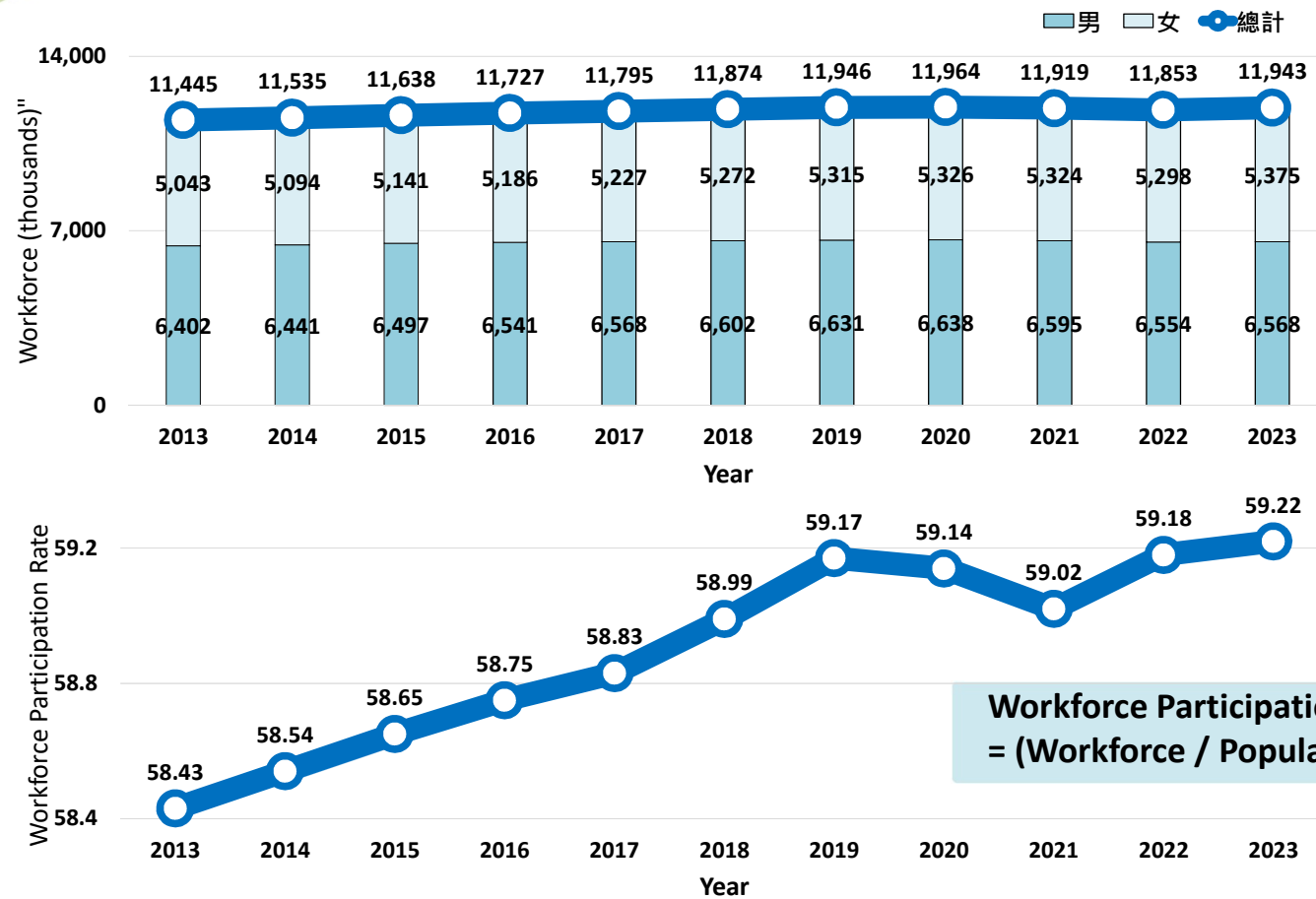


Note:

1. Special Municipalities are Taipei City, New Taipei City, Taoyuan City, Taichung City, Tainan City, and Kaohsiung City.
2. The Ministry of Labor authorizes and oversees the labor inspection operations of the Labor Inspection Offices of Special Municipalities, National Science and Technology Committee's Hsinchu, Central, and Southern Science Park Administration Bureau, as well as the Industrial Park Administration Bureau under the Ministry of Economic Affairs.
3. Designated Inspection Agencies which mean an administrative unit, academic institute, or non-profit organization designated by Ministry of Labor to inspect hazardous machinery or equipment conclude the Chinese Boiler Association, the Chinese Industrial Machinery Association and the Industrial Safety and Health Association of the R.O.C.(Taiwan).

Statistics

2013-2023 National Workforce Descriptive Statistics



Statistics

OSH Inspection & Cases (2023)

696

OSH Inspectors

59,729

Number of Workplace
Inspections and Visits

845,354

Number of Enterprises and
Institutions Employing Labor

1 : 16,448

Ratio of the Number of
Inspectors to the Total
Workforce

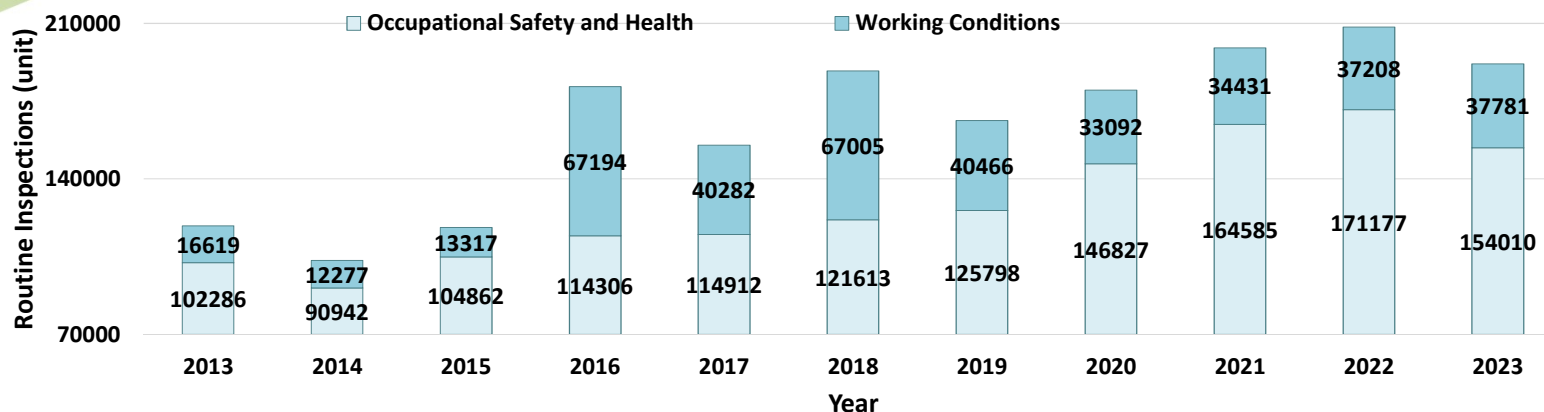
0.61

Ratio of Inspectors per
10,000 Workforce

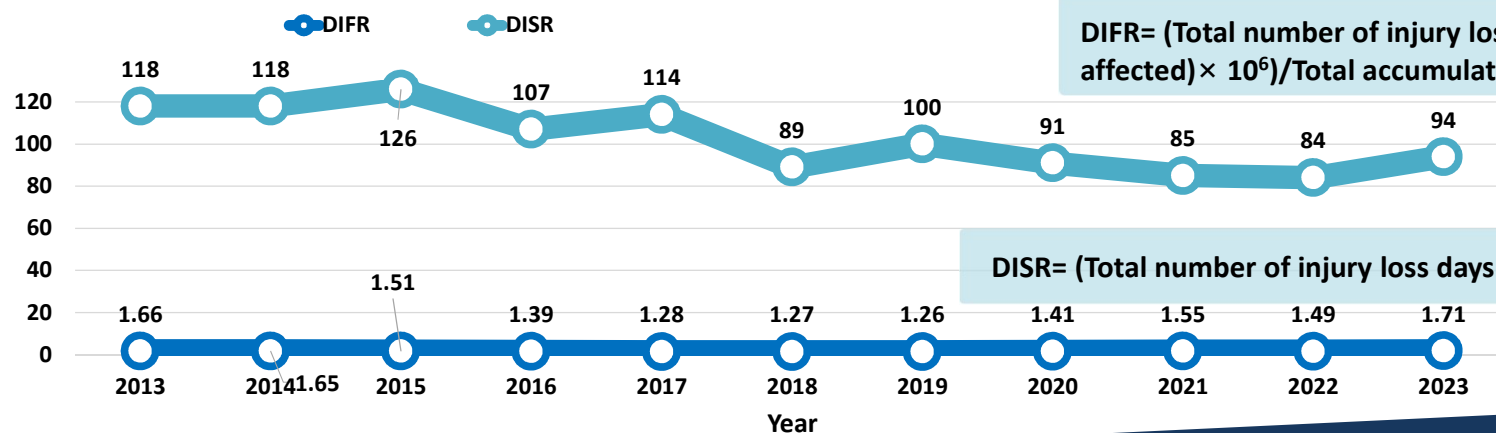


Statistics

2013-2023 Labor Inspection and Cases



Disabling Injury Frequency Rate (DIFR)/Disabling Injury Severity Rate (DISR)



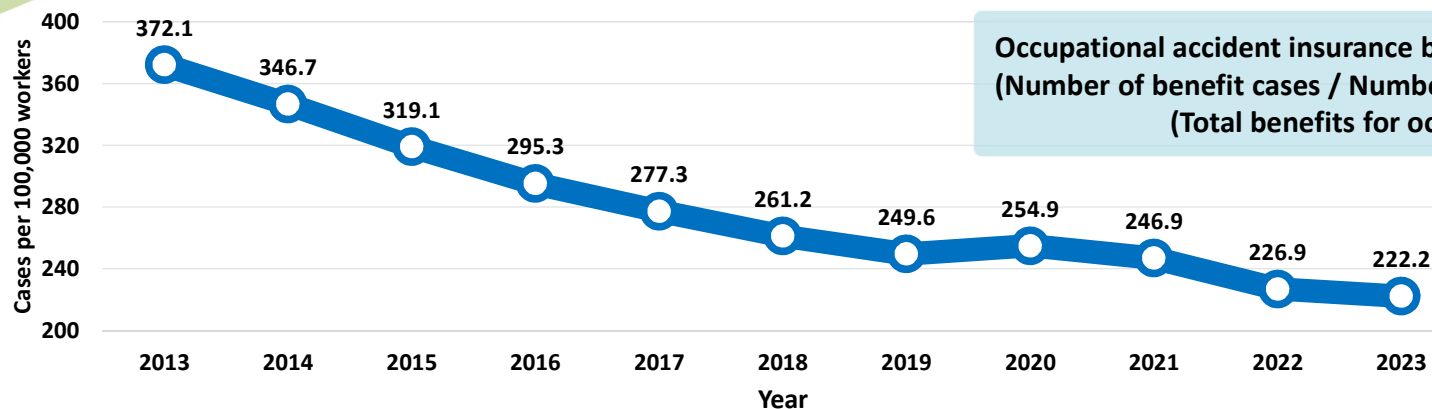
DIFR= (Total number of injury losses (cumulative count of individuals affected) × 10⁶) / Total accumulated work hours

DISR= (Total number of injury loss days × 10⁶) / Total accumulated work hours



Statistics

2013-2023 National Occupational Accident Insurance Benefits



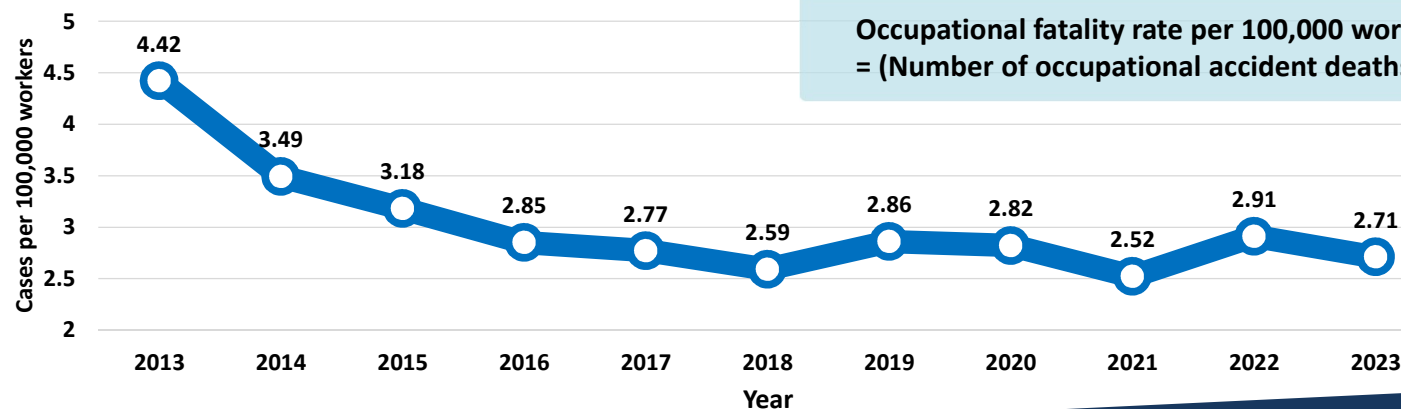
Occupational accident insurance benefit rate per 100,000 workers =
$$\left(\frac{\text{Number of benefit cases}}{\text{Number of workers}} \right) * 100,000$$

(Total benefits for occupational disability, injury, and death)

Note:

1. Source: Bureau of Labor Insurance, Ministry of Labor.
2. Excludes occupational accidents related to traffic accidents.

2013-2023 Occupational Fatalities caused by Workplace Accidents



Occupational fatality rate per 100,000 workers
$$= \left(\frac{\text{Number of occupational accident deaths}}{\text{Number of employed workers}} \right) * 100,000$$

Note:

1. Source: Occupational Safety and Health Administration, Ministry of Labor, and Directorate-General of Budget, Accounting and Statistics, Executive Yuan.
2. Excludes traffic accidents not related to the performance of duties.



Execution & Results

Self OSH Management (2023)

TOSHMS: Taiwan Occupational
Safety and Management System

937

Company with approved
TOSHMS Performance

1,068,900

Workers covered by
certified TOSHMS

Safety of Machine/Equipment/Tool (2023)

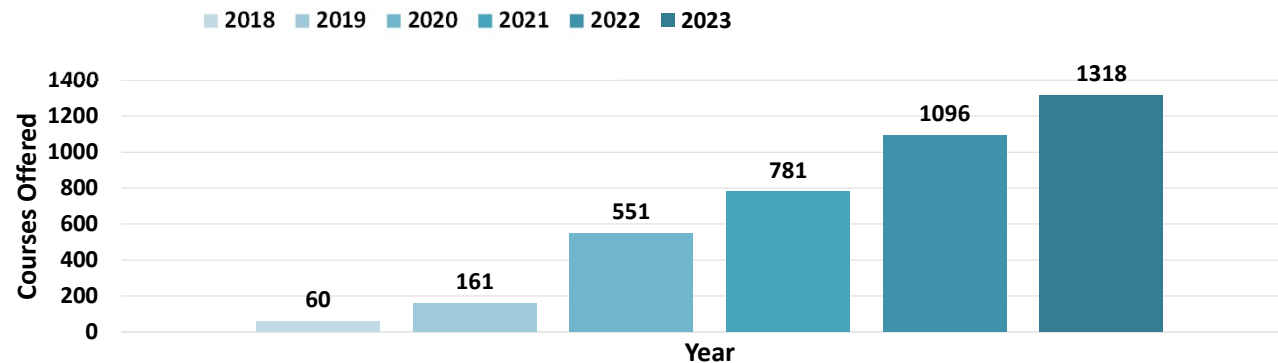
106,021

Inspection of Hazardous
Machinery and Equipment



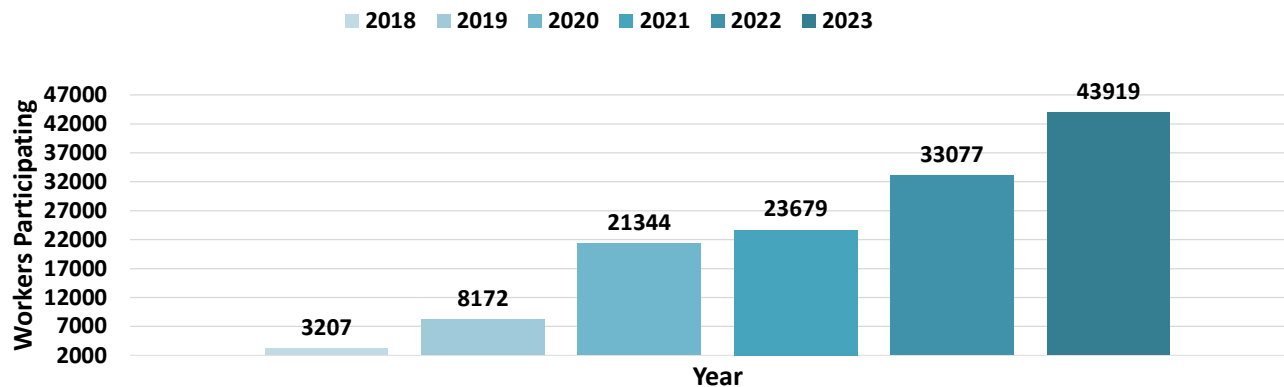
Execution & Results

2018-2023 Taiwan OSH Card Courses Offered in the Construction Sector



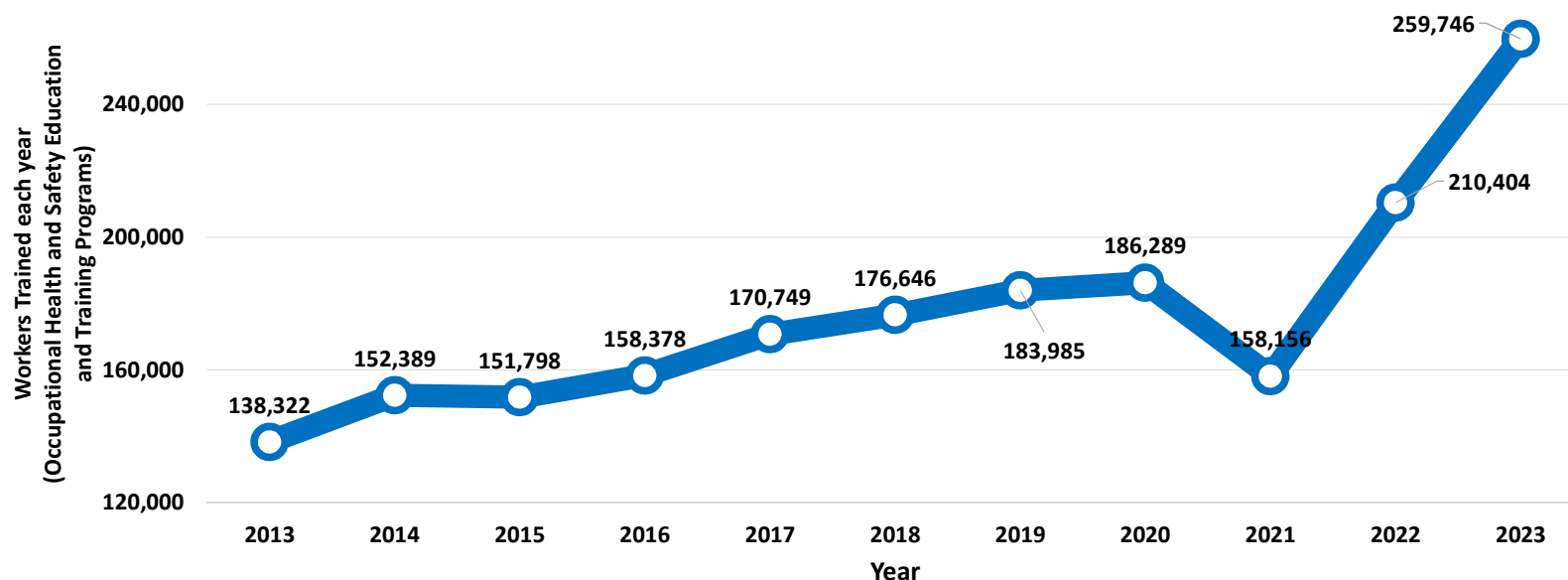
Workers can obtain Taiwan OSH Card after completing training, to be admitted for entering construction workplaces

2018-2023 Workers Participated in Taiwan OSH Card Courses



Execution & Results

2013-2023 Trained by OSH Education and Training Programs



Total Workers Trained
from 2013 to 2023

1,946,862

Note:

In 2021, the decline in training participation was attributed to the severe COVID-19 epidemic. In compliance with government epidemic prevention policies, training units were prohibited from conducting training activities in person during the Level 3 alert period (May 19 to July 26). From June 1 to December 31, training units were allowed to conduct online live streaming training sessions.



Execution & Results

Workers' Health Examination (by 2023)

406

Accredited Medical
Institutions for General Health
Examination

157

Accredited Medical Institutions
for Special Health Examination

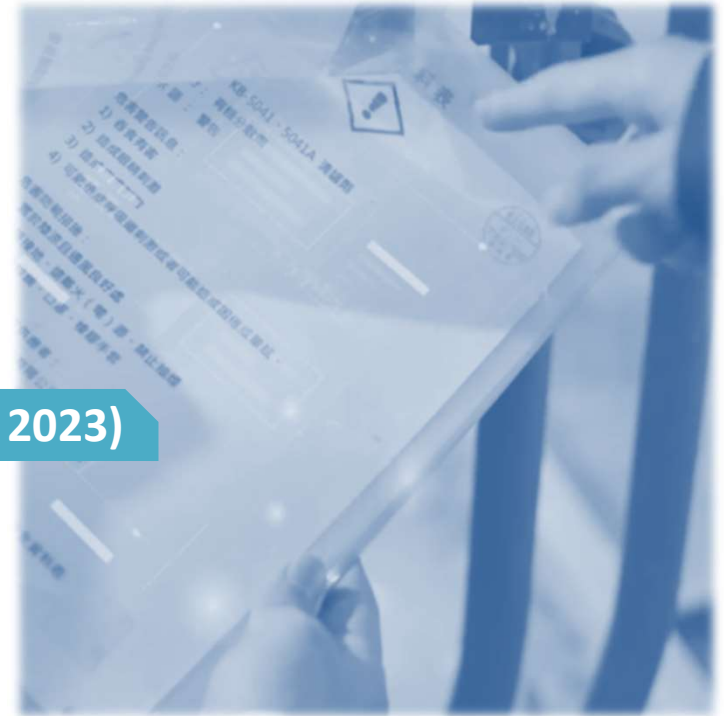
Chemical Labeling/Hazard Communication/Management (by 2023)

6,000

Label and SDS Templates

19,000

Hazardous Chemical in Workplaces



Carcinogenic Chemical Prevention

1,409 2022-2023

Job-site Visit and Consultation

Monitoring, Evaluation, & Management (by 2023)

8,593

Institutions and Enterprises

Execution & Results

Health Service & Prevention (by 2023)

34

Accredited OSH Consulting
Service Agencies

2,477

Health Service Physician

15

Accredited Medical Institutions

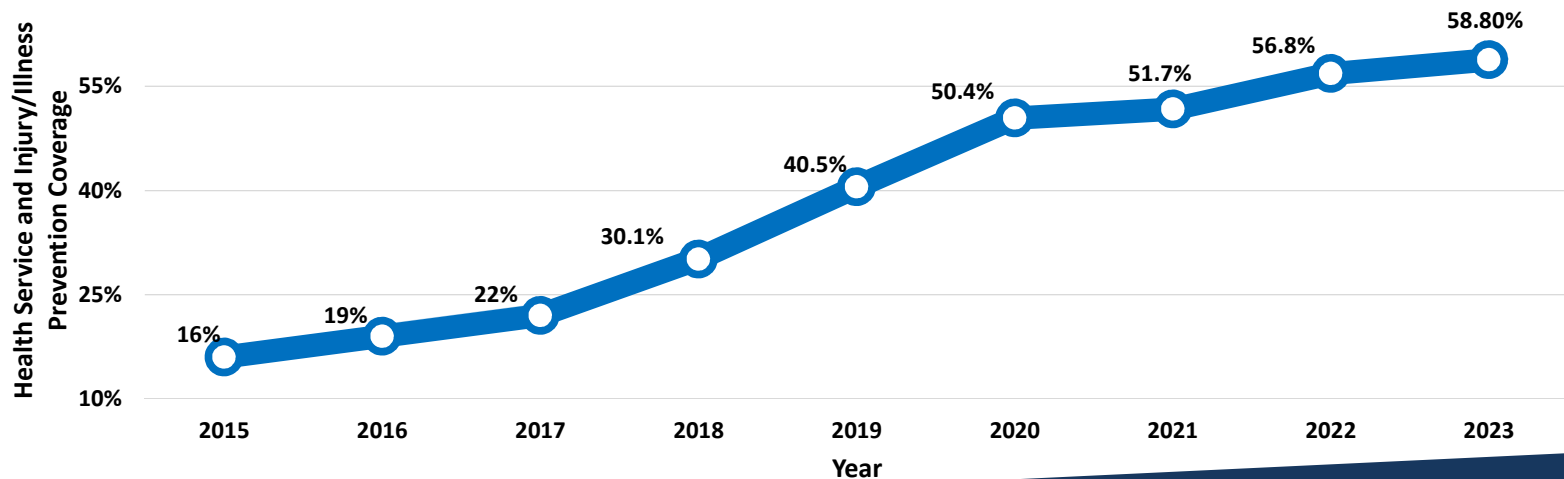
26,926

Nurses & Personnel

89

Network Hospitals

2015-2023 Health Service and Injury/Illness Prevention Coverage



Execution & Results

Reporting/Investigation/Insurance/Compensation (2023)

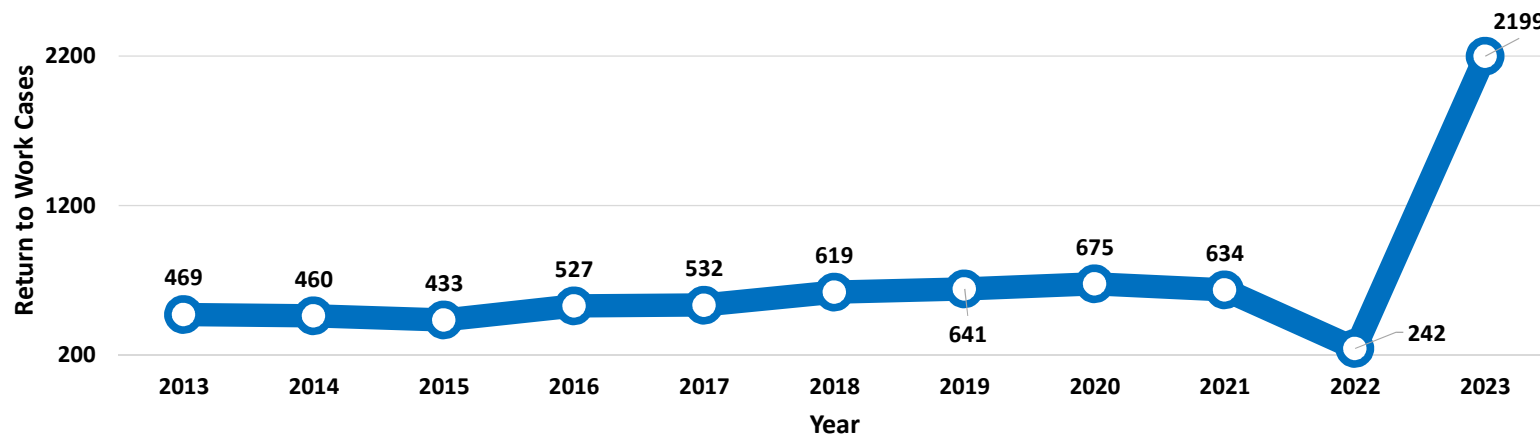
2,649 Cases
232,813,390 \$NTD
 Compensation paid for insured workers and subsidy for assistive devices

Worker Rehabilitation (2023)

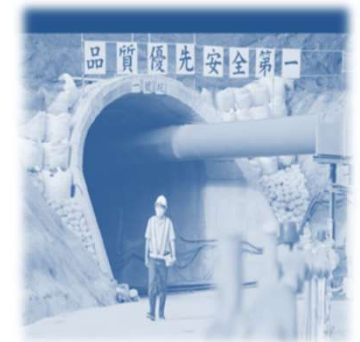
95,130
 Case served by local governments

2,686
 Cases served by individual case management professionals

2013-2023 Rehabilitation – Worker Return to Work Cases

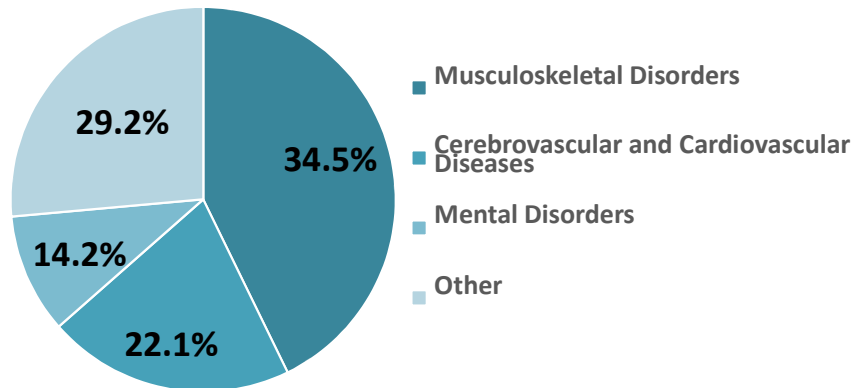


Note: Prior to 2022, according to the provisions of the Occupational Safety and Health Act, occupational accident workers' rehabilitation services were subsidized annually based on plans proposed by institutions. Starting from 2023, these services will be governed by the Disaster Protection Act, actively recognizing specialized hospitals for occupational accident vocational rehabilitation to provide assistance to occupational accident workers, thereby expanding service capacity.



Execution & Results

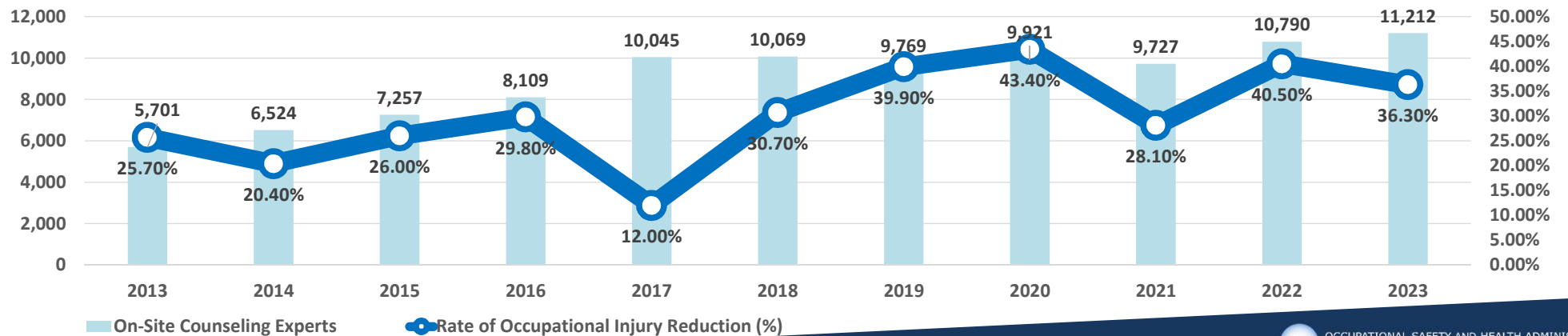
2013-2022 Occupational Diseases Reporting, Investigation, Insurance, & Compensation



Type	Cases	%
Musculoskeletal Disorders	39	34.5%
Cerebrovascular and Cardiovascular Diseases	25	22.1%
Mental Disorders	16	14.2%
Other	33	29.2%
Total	113	100%



2013-2023 On-Site Counseling Experts for Enhancing Workplace Environment in SMEs vs. the Rate of Occupational Injury Reduction



Implementation Plans and Programs

National Mid-Long Term OSH Plans

- National OSH Promotion Plan (2016-2020)
- Intellectualized OSH Supervision and Management Plan (2019-2023)
- National OSH Intellectualized Development Plan (2020-2023)
- 2030 Taiwan Occupational Safety Strategy: Minimizing Workplace Accidents by Half (2024-2030)

National OSH Implementation Programs

Occupational Safety

- **OSH Self Management:** Over 937 companies received TOSHMS covering about 1.068 million workers
- **Safety of Machinery, Equipment, and Tools:** Safety of hazardous machinery and equipment, establishment of an information reporting and registration system, with 3,800 types of explosion-proof electrical equipment passed inspection.
- **Safety of Hazardous Machinery and Equipment:** Commissioned designated inspection agencies to conduct inspections.
- **Enhanced Disaster Reduction Management in the Construction Sector:** Implemented diligent inspections and strict penalties, strengthened regulations at the source, established an interagency accident reduction platform, developed platforms to enhance construction standards, provided enhanced guidance for small to medium-sized engineering projects, promoted engineering safety awards, and utilized technology to reduce accident.
- **Safety in Potential High-Hazard Processes:** Conducted periodic process safety assessments for enterprises engaged in petroleum cracking and petrochemical industries and the manufacture, disposal, or use of hazardous chemicals. Conducted reviews and inspections of industries such as petroleum cracking and petrochemicals, pesticide manufacturing, and fireworks and explosives manufacturing.

Implementation Programs

National OSH Implementation Programs

Occupational Safety (Continued)

- **Protection of Specific Groups' Health and Safety (youth, middle-aged and elderly, women, indigenous people, migrant workers):** Actively promoted and supervised employers to implement educational training.
- **Assistance for SMEs in OSH:** Provided local rooted counseling specialist teams, guidance and subsidies for safety and health facilities and equipment applications for SMEs.
- **Safety Management in Green Energy Industries:** Safety guidelines for offshore wind farm operations.
- **Safety Protection for Workers in the Gig Economy:** Safety and health guidelines for delivery operations.

Occupational Health

- **Promotion of Sustainable Workplace Health and Safety Development Plan:** Develop GRI 403 guidelines for Workplace Sustainable Health and Safety SDGs disclosure, promoting sustainable practices across supply chains.
- **Chemical Management in Facilities:** Ensure hazardous substance labeling and provide SDS templates.
- **Strengthen Chemical Control Banding (CCB) exposure assessment and management,** covering 58% of SMEs.
- **Transformation of Traditional Industries from 3D to 3C:** Upgrade practices in plastic products, foundry, surface treatment, textile finishing, and rubber manufacturing, i.e.. Clean, Career and Competitive (3C).
- **Occupational Health Services:** Expand on-site services and support workplace health initiatives for physical and mental well-being.

Protection of Workers in Occupational Accidents:

- **Occupational Accident Insurance and Compensation:** Provide appropriate compensation and economic support to workers suffered from occupational accidents, ensuring livelihood security for them and their families. Workers not covered by labor insurance may also apply for care, disability, or death benefits.

Implementation Programs

National OSH Implementation Programs

Protection of Workers in Occupational Accidents:

- **Occupational Injury and Disease Treatment, Rehabilitation, and Reconstruction:** Establish 15 accredited medical institutions for occupational injury and disease treatment, 89 network hospitals, and 36 professional occupational rehabilitation institutions for workers suffered from occupational accidents.
- **Grading of Occupational Accident Insurance Premiums:** Calculate premiums based on the OSH management performance of insured units over the past three years, along with the incidence of occupational accidents of enterprises:
 - ✓ Units awarded National Occupational Safety and Health Awards or Five-Star Awards receive a 20% premium reduction.
 - ✓ Units certified under TOSHMS receive a 10% premium reduction.
 - ✓ Violations resulting in injuries to three or more individuals hospitalized or one individual hospitalized incur a 10% premium increase.
 - ✓ Violations resulting in fatalities incur a 20% premium increase.

Labor Education and Training

- **Regular Conduct of Occupational Safety and Health Education and Training:** Approximately 115 units nationwide conduct regular occupational safety and health education and training.
- **Establishment of Occupational Safety and Health Education and Training Information System:** Establish a system for querying external training units and accessing information on training courses.
- **Comprehensive Logging of Trainees' Training Portfolios:** Complete registration of trainees' training records in the Occupational Safety and Health Resume Intelligent Cloud.
- **Development of Occupational Safety and Health Digital Learning Platform:** Create a digital learning platform for OSH, offering online courses including multilingual programs for foreign migrant workers.

Partnership & International Engagements

16

University & Colleagues
with OSH Programs

12

Organization of the Central
Occupational Safety and Health
Promotion Council

13

Organization of the
Central Safety Partners

OSH Cooperation Partners and Stakeholders

- **Central Government:** Taiwan Occupational Safety and Health Management System Promotion Association (TOSHMS), Industrial Park Safety Promotion Association and Safety Partners, Local Rooted OSH Family, Establishment of Cross-Agency Disaster Reduction Platform and other occupational safety and health cooperation systems
- **Central Branches and Local Government Level:** Occupational Safety and Health Centers in Northern, Central, and Southern Taiwan, Occupational Safety and Health Systems in Directly Governed Cities
- **Industry Collaboration Initiatives:** Construction Industry Occupational Safety and Health Promotion Association, Inherent Safety Promotion Alliance

International Cooperation Activities

- **Bilateral Cooperation:** Taiwan-EU Occupational Safety and Health Cooperation Conference, Taiwan-UK Bilateral Occupational Safety and Health Cooperation Conference, Offshore Wind Farm Inspectors Exchange Program in the UK, International Association of Labour Inspection (IALI)
- **Participation in International Conferences:** APEC Chemical Dialogue (CD) Meetings, International Association of Industrial Accident Boards and Commissions (IAIABC) Annual Conference, World Congress on Safety and Health at Work (WCS), International Commission on Occupational Health (ICOH) Congress, American Industrial Hygiene Conference & Exposition (AIHce)
- **Membership in International Organizations and Associations:** Asia-Pacific Economic Cooperation (APEC) Chemical Dialogue (CD), International Association of Industrial Accident Boards and Commissions (IAIABC)

Professional & Databases

OSH Portals & Websites

- OSHA, Ministry of Labor Official Website <https://www.osha.gov.tw/>
- OSH Excellence and Major Incidents Dissemination Portal <https://pacs.osha.gov.tw/>
- Process Safety Management Information Exchange Portal <https://psm.osha.gov.tw/>
- TOSHMS Taiwan OSH Management System <https://toshms.osha.gov.tw/>
- Construction Sector OSH Information System <https://coshms.osha.gov.tw/default.aspx>
- Intelligent Cloud of Worker OSH Portfolio <https://isafe.osha.gov.tw>
- SMEs OSH Information Homepage <https://www.sh168.org.tw/default.aspx>
- 3K Industry Information Homepage <https://3kto3c.osha.gov.tw/>
- Mechanical Equipment and Tool Safety Information Homepage <https://tsmark.osha.gov.tw/sha/public/home.action>
- Occupational Incident Reporting Portal <https://insp.osha.gov.tw/labcbis/dis0001.aspx>

OSH Databases & Tools

- OSH Training and Online Test Platform <https://trains.osha.gov.tw/>
- Taiwan OSH Card for Workers <https://oshcard.osha.gov.tw/>
- OSH Digital e-Learning Platform <https://isafeel.osha.gov.tw/mooc/index.php>
- GHS & Workplace Chemical Management Portal <https://ghs.osha.gov.tw/frontPage/index.html>
- Health Service Professionals and Training Platform <https://etms.osha.gov.tw/>
- Dangerous Machine and Equipment Inspection Portal <http://www.aia.org.tw/>
- Dangerous Zone Assessment Tool <https://exproof.osha.gov.tw/>

Emerging Issues & Challenges

Issues & Challenges

- **Declining Birthrate and Aging Population** is resulting in a shortage of workforce and the need for OSH conditions for the aged.
- **Lack of Skilled Construction and Building Workforce** is creating stress and adverse OSH impacts.
- **Human-Machine Collaboration and Artificial Intelligence** is changing working environments to demand advanced adaptation, training, and beyond.
- **Climate Change** is causing extreme weather hazards in workplaces, requiring remediation and prevention measures.
- **Green Energy Field Development** is requiring additional protection for workers.
- **Unlawful Infringement** such as workplace violence, bullying, and sexual harassment is harming workers' emotional, psychological, and social well-being.
- **Gig (Platform) Economy & New Work Models** with unstable work hours, income uncertainty, and competition can impact workers' health, which deserving protection of labor rights.

OSH Countermeasure & Actions

- Amending OSH regulations to ensure their adaptation to changing work environments.
- Providing training and education to enhance awareness of OSH issues among employers and workers, and to offer training for adapting to new technologies and emerging industries.
- Strengthening supervision and enforcement to ensure employers comply with regulations and take necessary OSH measures.
- Encouraging active participation of all sectors in discussing and resolving OSH issues.
- Promoting innovation to address emerging safety challenges, such as specific safety issues in the green energy industry.
- Enhancing OSH standards by learning from the experiences of advanced countries through international exchanges.

References

- 2011-2020 Taiwan OSHA 10-Year Documentary Journey
- Occupational safety and health administration, Ministry of Labor, Taiwan (ROC) <https://www.osha.gov.tw/>
- Statistics on Safety & Health at Work, International Labor Organization. <https://ilostat.ilo.org/topics/safety-and-health-at-work/>





OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
MINISTRY OF LABOR, TAIWAN

