

Health and Safety Initiatives

- Health and safety are a vital foundation of our business activities.
- The Tokyo Electron Group promotes “health and safety first” in every aspect of its activities.

● Our approach to health and safety

As part of our social responsibility activities, the Tokyo Electron Group places great importance on ensuring that our customers, employees and everyone else involved in our business can work in a safe workplace environment, use our products safely, and enjoy good health.

In fiscal 2012, we further expanded our existing safety inspection activities at our customers’ factories in Japan and overseas. For newly built factories in particular, our safety specialists verify with the customer the safety of the work environment as well as the availability of safety equipment before our product is delivered, using a check sheet created specifically for new factories.

When installing our production equipment in a clean room, for instance, there is a risk of tripping or falling during the installation because a floor opening needs to be made so that the equipment can be connected to power and other utilities*1. In order to ensure that workers are well aware of these risks and carry out all the necessary safety measures, like installing barricades in the work area, we implement regular programs at each business site. These programs simulate actual working conditions using one of our own clean rooms to instruct participants on proper work procedures and how to deal with dangerous situations. Similar safety education and practical hands-on training sessions are also conducted in other countries and regions around the world.



Practical training in a clean room

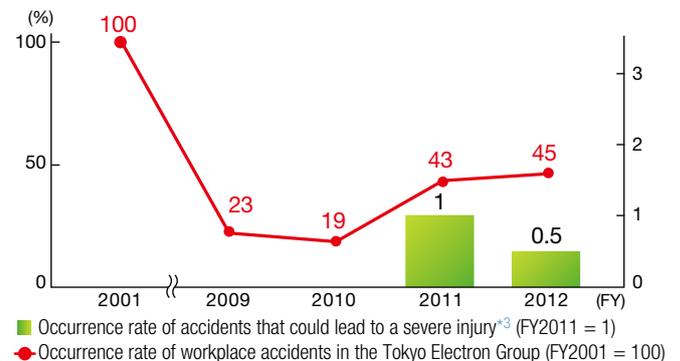
*1 In addition to a power cable, production equipment needs to be connected with exhaust, cooling water and pure water piping, among others.

● Preventing workplace accidents*2 before they occur

Although the number of workplace accidents that occurred in fiscal 2012 was almost the same as in fiscal 2011, the frequency of serious accidents that could have led to severe injury was reduced to half of that in fiscal 2011, thanks to vigorous activities aimed at eradicating serious accidents. These activities include checking, before our product is delivered, evacuation routes and emergency exits from clean rooms as well as the availability of safety facilities, such as a shower room that can be used when a worker is exposed to a liquid chemical; identifying potential hazards at work sites; conducting safety inspections; and providing training based on accident case studies. We conduct these activities regularly to prevent accidents before they occur. In fiscal 2013, its 50th year, the Tokyo Electron Group is reminding its employees of the Group’s “safety first” policy and working to further foster a safety culture with the aim of totally eliminating workplace accidents through the collective efforts of the entire Group.

*2 Workplace accident: Following the guidelines of the United States Occupational Safety and Health Administration (OSHA), the Tokyo Electron Group defines an accident involving an injury to an employee as a “workplace accident.”

■ Workplace accident occurrence rate



*3 Accident that could lead to a severe injury: An accident that, in the worst-case scenario, could result in a severe injury with after-effects

● Safety education

Since July 2000, the Tokyo Electron Group has been promoting Group-wide safety education to encourage a shared understanding of the importance of safety. Basic safety education targeted at all Group

TOPICS

Multilingual safety promise booklet for overseas locations

The safety promise booklet summarizes important points to prevent accidents and ensure safety in the workplace. These points have been identified as the result of analyzing past accidents. Workers check the booklet before work as an aid to preventing accidents. In addition to Japanese, the booklet is now available in English, Korean and Chinese for use by our overseas organizations, where it has proved popular due to its ease of carrying and use.



employees is conducted using a manual created by the Group for this purpose. More advanced safety education based on the guidelines compiled by the Semiconductor Equipment Association of Japan (SEAJ) is provided for our technical employees who work in clean rooms. In light of our safety track record from fiscal 2011, advanced safety refresher courses in fiscal 2012 focused on the hazards of electrical work and the handling of heavy goods and chemicals. These refresher courses are available via our Intranet and on CD, and roughly 7,700 employees participated in these courses during fiscal 2012. We also make sure that workers take a pre-work safety check test prior to visiting customers' factories to verify their understanding of customers' rules and practices.



Refresher training and pre-work safety check test on the Tokyo Electron Group Intranet

● Introduction of MoveSMART*4

We have introduced the MoveSMART program to our locations in North America and Europe as a way to prevent low back pain and other work-related musculoskeletal disorders. MoveSMART is a wide-ranging safety education program developed by U.S. company Strategic Safety Associates based on martial arts, ergonomics*5, exercise and sports science, industrial psychology, and actual work-related experiences. The objective of the program is to prevent backache and other problems caused by adopting physically straining postures during work hours. Trainers trained exclusively for the Tokyo Electron Group are assigned to our offices in North America and Europe to implement the program.



Practice of MoveSMART

● EHS seminar in Taiwan

On February 23, 2012, Tokyo Electron Taiwan organized a seminar to explain the Tokyo Electron Group's environmental and safety commitments to our semiconductor and FPD manufacturer customers.

The seminar introduced efforts made by our plants and offices to protect the environment and save energy along with our environment-friendly products and technologies, while also detailing our safety activities to reduce accidents and anti-seismic measures taken for our plants and products. A video created for safety education purposes that explained how some past accidents occurred was shown at the end of the seminar. The seminar attracted about 50 participants from leading semiconductor and FPD manufacturers in Taiwan. Because Taiwan, like Japan, is earthquake-prone, there were many questions regarding the anti-seismic measures, particularly the seismic isolation technology adopted for our products. There was also a request that we produce a video similar to the one screened in the seminar that could be used throughout the industry.



EHS seminar in Taiwan



The installation position of the system

Seismic isolation technology



Video explaining how past accidents happened

*4 MoveSMART is a trademark or registered trademark of Strategic Safety Associates, Inc. in the U.S. and other countries.

*5 Ergonomics: A scientific approach in which both physical and psychological human functions and properties are studied in order to design and develop equipment and environments based on the findings

TOPICS

Accident case study DVD

The Tokyo Electron Group has produced a DVD on case studies of clean room and other accidents that have occurred in recent years and offered copies to the Semiconductor Equipment Association of Japan (SEAJ). The DVD explains how accidents have occurred during work carried out at high elevation, near a floor opening, while carrying heavy objects, or under other circumstances during the setup or maintenance of semiconductor production equipment. It then explores their causes and suggests ways to prevent accidents from the viewpoint of workers. We created this DVD with the hope that it will be utilized as a supplementary tool for the prevention of similar accidents, hazard prediction, safety education, and other safety management activities across the industry.

