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Meidensha Corporation

Meiden System Solutions Corporation

Japan Industrial Safety & Health Association

To member of the press

Meiden, MSS and JISHA expand range of programs of hands-on industrial safety education service that uses an advanced VR system

Meidensha Corporation (Meiden), one of its subsidiaries (Meiden System Solutions Corporation, or MSS) and Japan Industrial Safety & Health Association, or JISHA, have jointly developed new programs for a hands-on industrial safety education service that uses an advanced virtual reality system^{*1}.

As a first step, on May 25 we will release an educational program that allows workers in the manufacturing sector to virtually experience an accident in which a worker is caught by a roller that could have serious consequences.

Background

Meiden has offered hands-on safety education to employees since 2008 to make them more aware of danger in the workplace. From 2016, the company offered such education for a fee to other companies by visiting their factories and construction sites. So far, more than 27,000 (cumulative total number) people have attended this educational program. Most of them have provided Meiden with positive feedback. Meiden also developed a similar educational program by using virtual reality in a unique way that allows program participants – from inside and outside the company – to experience industrial accidents virtually.

JISHA, meanwhile, develops and offers education and training to eliminate industrial accidents in a wide range of industries, under its management philosophy of “Safe work and safe life for all workers: Safe Work, Safe Life.” JISHA started using Meiden’s hands-on safety educational programs in 2021 at a seminar it provides to enable participants to learn about workplace dangers through experience.

While Meiden has mainly developed and offered such safety education programs to the manufacturing and construction sectors, JISHA provided various services to prevent industrial accidents in a wide range of industries, including manufacturing. Its services include giving technological supports and guidance in safety and health, offering seminars and providing information by selling books and supplies. This collaboration is expected to be effective in developing educational programs that will help improve awareness of safety and health among workers in many industries.

Joint development of educational content

JISHA is in charge of developing scenarios in which industrial accidents take place in various industrial sectors. Meiden and MSS, on the other hand, will make educational programs in which these scenarios will be reproduced in the world of virtual reality.

The three parties plan to make about four programs a year. The first one will be about an accident in which a worker is caught by a roller which will be released on May 25 by Meiden. Workers will be able experience these programs at Meiden's hands-on safety education and JISHA's seminars.

<Content to virtually experience being caught by a mill>

A roller is a machine widely used to process materials made of rubber, resin or metal. The content reproduces in the virtual reality sphere a dangerous situation caused by human error. The aim is to raise worker awareness of safety and health by allowing them to experience an accident virtually.

One scene from the content.

Though their collaboration, Meiden plans to release more programs, involving situations such as "being wedged between a crane and an object" and "being hit hard by a crane" to promote safety education with the aim of eliminating industrial accidents.

*1: VR-based safety education allows participants to experience an industrial accident in the virtual reality system so that they can have hands-on experience of workplace danger and can enhance their awareness of danger.

- Website for Meiden's VR-based hands-on safety training program
(For inquiries about renting, subscribing to and buying videos and other services,
please visit the site below)

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