

**FACTSHEET ON WORKPLACE SAFETY AND HEALTH AWARDS 2015****Introduction**

The Workplace Safety and Health (WSH) Awards is an annual initiative organised by the Workplace Safety and Health (WSH) Council and the Ministry of Manpower. Started in 2006, the WSH Awards recognise companies and individuals who have achieved excellent WSH performances through sound and effective management of WSH issues at their workplaces.

**WSH Awards Categories**

2 The Awards cover several key WSH areas, including performance, best practices and innovative ideas. The Awards categories are as follows:

**a. Workplace Safety and Health Performance Award**

This award recognises organisations that have performed well in WSH through the implementation of sound WSH management systems or processes.

- Organisations are awarded Excellence, Gold or Silver depending on their performance

**b. Safety and Health Award Recognition for Projects (SHARP)**

This award recognises projects that have performed well in WSH through the implementation of sound WSH management systems or processes.

**c. Workplace Safety and Health Developer Award**

This award recognises developers who play an active role in ensuring good workplace safety and health practices among their contractors.

**d. Workplace Safety and Health Innovation Award**

This award recognises work teams for the innovations to improve WSH in the workplace.

**e. Workplace Safety and Health Officer Award**

This award recognises registered WSH officers for cultivating safe and healthy workplaces in Singapore.

**f. Workplace Safety and Health Award for Supervisors**

This award recognises supervisors who demonstrate care for workers under their charge by improving the WSH performance in their workplaces.

**g. Workplace Safety and Health Risk Management Award**

This award recognises organisations which have effectively implemented Risk Management to enhance WSH in their organisations.

## WSH Awards 2015

3 This year, 191 recipients will be receiving the Awards, out of a pool of 348 applications. The table below shows the breakdown of the 2015 WSH Award Recipients by categories.

<b>2015 WSH Award Recipients</b>	
<b>WSH Developer Awards</b>	<b>2</b>
<b>WSH Performance Awards</b>	<b>48</b>
<b>WSH Performance (SHARP) Awards</b>	<b>121</b>
<b>RM Awards</b>	<b>2</b>
<b>WSH Innovation Awards</b>	<b>7</b>
<b>WSH Supervisor Awards</b>	<b>11</b>
<b>Total</b>	<b>191</b>

## WSH Awards 2015 Commemorative Book – Profiles of Award Recipients

### WSH Performance Awards (Excellence)

#### **Infineum Singapore Pte Ltd**

Infineum's core value is "Nobody gets hurt." To cultivate the mindset that working safely is a way of life, Infineum implemented a Last Minute Risk Assessment (LMRA) initiative. Every employee has to perform a final risk assessment before starting at work at a worksite in addition to the routine Job Safety Assessments (JSA). With the LMRA checklist, employees are able to access and rectify potential hazards quickly so that they can focus on their tasks at hand. A key component of Infineum's safety programme, LMRA has been consistently practiced by employees since its implementation 15 years ago.

*"At Infineum, Safety is a way of life. We comply with a structured safety system that delivers industry-leading results, but we are never complacent. Receiving this prestigious WSH Excellence Award for the 17th straight year is an honour of which we're all exceptionally proud."*

Trevor  
Managing Director and Executive Vice President, Sales & Supply, Infineum Singapore

Russell

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#### **Rockwell Automation Asia Pacific Business Center**

Since 2011, Rockwell Automation has been holding a "Spot the Hazard" campaign to encourage its employees to report any potential hazards or risks to their supervisors immediately. Employees who bring up the hazards will be rewarded as a form of recognition. The continuous improvement team, also known as Kaizen team, will then review and implement improvement programmes for each hazard detected. In addition, Rockwell Automation awards projects that bring in improvement in safety. As a result, Rockwell Automation has observed a significant improvement in its safety performance. It has not seen any serious injuries since it started its manufacturing facility in Singapore in 2006. This year is also the 5<sup>th</sup> time that Rockwell Automation has won the WSH performance Award (Excellence).

*"A really safe and secure environment is when employees are self-inspecting, know that they are empowered and take it upon themselves to speak up or take action on safety issues. We want to make safety second nature for everyone here."*

Mr Co Gia Nguyen  
Vice-President and General Manager, Rockwell Automation Asia Pacific Business Center

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### WSH Innovation Awards

#### **Halliburton Completion Tools Manufacturing Pte. Ltd.**

At Halliburton Singapore completion tools manufacturing facility, tubular parts and equipment moves through a sequential production process—from staging and processing to logistics—for the delivery of quality products. The flow of production is performed by using overhead cranes to place tubular parts and equipment onto wooden pallets, before transferring each pallet to the next production stage for further processing. Some of these activities such as measurement, inspection and cleaning may require an operator to perform the task while the part or equipment sits on the wooden pallet. This exposes production operators to potential pinch point hazards and ergonomic risk factors that can cause injuries.

## **Solution**

To minimise the WSH risk factors, Halliburton introduced the 'I-Cart' to replace the use of wooden pallets on the production shop floor. The 'I-Cart' is a mobile trolley designed for transporting heavy tubular parts and equipment along the production hallway, while enabling operators to perform production activities safely.

Designed with multiple rollers on its load surface, the 'I-Cart' enables operators to inspect, measure and clean heavy tubular parts by rotating them between rollers. The rollers also serve as a choke, preventing accidental movement or parts colliding into each other. There is also a space designed in-between the load surface and the part to eliminate pinch point hazards during loading and unloading. In addition, the space also enables operators to easily slip the lifting sling between the spaces when attaching or detaching lifting slings to the load, allowing operators to perform safe lifting operations without having to physically lift the load.

*"Keeping our people safe on the job has always been the Halliburton way of doing business".*

Mr Dave Lesar

Chairman and CEO, Halliburton, Halliburton Completion Tools Manufacturing Pte. Ltd.

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## **Keppel Shipyard Limited**

At Keppel Shipyard, more than 6,000 couplers are used to hold metal poles together in scaffolding that serve to provide temporary platforms for daily work activities. At the end of each working day, the couplers required to be sent for servicing. To service the couplers, workers will have to use a pneumatic impact wrench to loosen the nuts. This process exposes them to ergonomic injuries in the long run because of the constant force and vibration from the impact wrench. They also face the risk of getting hit by flying parts from the couplers that might be fractured during the process.

## **Solution**

A jig that reduces the physical contact that workers have with the coupler and the impact wrench during the servicing process was developed. The jig locks the coupler in place, so that the workers do not have to hold onto the coupler when the wrench is applied. The wrench is also mounted on a guided slide so that the wrench and nut are perfectly aligned. The contact point between the wrench and the bolt is half enclosed to prevent flying fragments. With this innovation, the exposure to strong vibration of the wrench is greatly reduced. Productivity has also increased from servicing 80 couplers per hour to 150 couplers per hour.

*"Safety is our top priority and has always been a key aspect of Keppel Shipyard's operations. Our integrated WSH framework, which promotes safety ownership across all levels, supports our vision of having all employees at our workplaces go home safely everyday".*

Mr Chor How Jat

Managing Director, Keppel Shipyard Limited

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## **Resorts World Sentosa Pte Ltd**

At Resorts World Sentosa (RWS), members of the wardrobe team are required to handle more than 10,000 pieces of uniforms daily. The task of scanning uniforms using stand-up and table top scanners, falls on the Wardrobe Assistants whose average age is 50 years old. Throughout the course of the workday, each Wardrobe Assistant is required to scan over

2,500 pieces of uniform. The repetitive actions contributed to an increase in fatigue levels and stiffness in their wrists.

In addition, during RWS's bi-annual inventory checks, Wardrobe Assistants are required to carry heavy boxes, weighing 10kg, filled with uniforms and transfer them to the tables for individual scanning.

### **Solution**

To reduce ergonomic risks and improve work processes, the team at RWS decided to equip Wardrobe Assistants with Ultra High Frequency (UHF) handheld scanners. As compared to stand-up and table top scanners, the UHF scanners are more sensitive, allowing Wardrobe Assistants to swiftly scan through a trolley rack filled with more than 250 uniforms in a single motion. The new UHF scanners are also able to track individual uniforms packed in boxes, reducing the need for Wardrobe Assistants to shift heavy boxes and scan each uniform individually.

The RWS team faced many challenges. Logistically, the team had to install the new UHF tag on all uniforms within a short timeline. In addition, the new UHF scanners had to undergo numerous testing phases to ensure that accuracy was maintained. Lastly, Wardrobe Assistants had to undergo specialised training which would familiarise them with the new technology.

*"At Resorts World Sentosa, the safety and health of all employees is of paramount concern. We strive to provide a safe workplace for all, and a healthy workforce."*

Mr Lee On Nam  
SVP Resort Services, and Chairman, RWS Safety Steering Committee,  
Resorts World at Sentosa Pte Ltd

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### **Sembcorp Marine, Tuas Boulevard Yard**

At the Sembcorp Marine Tuas Boulevard Yard, marine vessels are grit-blasted as they enter the dry dock. Grit blasting is a process where grit and other abrasive materials are blown out using compressed air to remove dirt, rust and scale on the vessels. The grit is stored in a structure called a hopper, from which it is channelled to the blasting pot during the grit-blasting process.

The process of refilling the hopper with grit requires a worker to climb to the top of the 5-metre high hopper. Once up there, the worker must position a skid, which is hoisted by a crane and filled with grit, towards the opening of the hopper. He then manually opens the cover of the hopper and operates a lever on the skid to unload the grit into the hopper.

The refilling process is not only time consuming but puts the worker at the risk of many potential WSH hazards. Apart from possibly getting struck by the skid during refilling, the worker may also fall to the ground due to the absence of guard rails on the hopper.

### **Solution**

To eliminate the WSH risks and improve productivity, the team came up with a solution called the 'OSTIUM', which involves modifying the top cover of the hopper. The OSTIUM removes the need for a worker to climb to the top of the hopper. With the installation of pre-positioned angle bars, the worker can now simply direct the crane operator to align the skid with the hopper's hatch opening. He then operates valves at ground level to open the hopper's hatch cover, and also works the lever on the skid to unload the grit.

Compared to the previous labour-intensive and WSH hazardous process, workers are now more confident working safely from the ground.

*“At Sembcorp Marine, we are committed to continuously promoting a safe and healthy work environment for our customers, employees, contractors and the community. We take responsibility for the safety of other people and ourselves, both on and off the job. This is in accordance with the Sembcorp Marine core values.”*

Mr Wong Weng Sun  
President & CEO Sembcorp Marine Ltd

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### **ST Aerospace Services Co Pte Ltd**

ST Aerospace Services Co (SASCO) specialises in heavy airframe maintenance and aircraft modification. A key project that SASCO is undertaking are modification works which converts a Boeing 767 aircraft from a passenger plane to a cargo plane. This project requires the team to replace existing floor grid of the aircraft to sturdier version for cargo loads.

To install the new floor grid in the aircraft, the new structure weighing 500kg had to be first hoisted into the aircraft cabin. Approximately 20 workers would then carry and manoeuvre the floor grid from the front of the aircraft to the rear. This practice exposes workers to numerous WSH hazards including slips, trips and fall and fall from height due to the uneven surface and hand injuries. In addition, due to the heavy load of the floor grid, workers are also exposed to ergonomic risks.

### **Solution**

The Floor Grid Transporter is a wheeled platform allowing the team to transport the floor grids easily within the Boeing 767 aircraft. With this innovation, the WSH hazards such as slips, trips and fall, fall from height and ergonomics are reduced. Productivity had also increased as it now requires just 2 workers, 20 minutes to transport the floor grid, instead of 20 workers and 60 minutes previously.

*“Following our mission statement, ‘We keep our aircraft flying safely’, we invest on improvements in equipment and processes to ensure our staff work safely on the aircraft, in the hanger or their workshop. Simple yet effective innovations can further enhance our workplace safety.”*

Ms Lee Hui Fung  
Assistant General Manager, ST Aerospace Services Co Pte Ltd

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### **Takenaka Corporation**

When working at construction sites, Mobile Elevating Work Platforms (MEWP) are commonly used as temporary working platforms by workers to work at height. This is always a challenge especially under conditions where space is a constraint as these machines are often moved around to perform work activities. Some of the MEWPs are huge and may cause working areas to become tighter. Workers may get hurt if these machines collide with one another.

### **Solution**

To reduce the risk of collision due to space constraints, Takenaka has designed the mobile hanging platform system. It is suspended like a cantilever and can travel at height. The platform is built on tracks so that it can be shifted easily from one location to another. The mobile hanging platform also helps to reduce the risks of workers and objects falling from height. It has 2 barricaded areas acting as a double layer of protection for workers.

Since the implementation of the hanging platform system, Takenaka Corporation has achieved a zero accident rate at their project site. It has also improved productivity as workers are now able to install aluminium glazing frames more quickly. Work productivity has increased by 60% as a result when compared with MEWPs.

“Takenaka Corporation’s health, safety & environmental policies are implemented to create safe & comfortable workplaces continuously by eradicating disasters & accidents as well as actively contributing to our society’s sustainable development.”

Mr Kimitoshi Nakashima  
Acting General Manager, Takenaka Corporation

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### **The Polyolefin Company Pte Ltd**

The Polyolefin Company produces polymer resins. During the production of polymer resins, polymer floss, which is inherent to the process, is generated. This floss is an insoluble waste that has a density lower than water and cannot be removed by a simple filtration process.

Workers are required to remove the floss from the process. As the floss accumulates at areas that are hard to access, workers are exposed to many Workplace Safety and Health (WSH) hazards such as back injury due to the awkward body posture when scooping floss from hard-to-reach areas, potential hand injuries from accessing the filter cover locks, as well as Slip Trips and Falls hazards from floss and water which overflowed resulting in wet surrounding surface.

### **Solution**

Pellet Conveying Water (PCW) Overflow Tank is a series of baffle plates that promotes floss separation. With the tank in place, floss are now only generated within the tank allowing workers to easily remove it and reducing most WSH risks.

“The Polyolefin Company recognises that all accidents and injuries can be prevented. We have taken systematic approaches with innovative ideas to achieve the highest practicable standards of health, safety and environmental protection.”

Mr Tan Way Ite  
General Manager (Plant)

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### ***WSH Risk Management Awards***

#### **Chevron International (S) Pte Ltd**

Chevron International (S) Pte Ltd believes that the implementation of Risk Management (RM) strategies is important for a safe working environment and productivity.

The Safety Video Training which started in 2013 is one such strategy. It helps workers understand the different types of Workplace Safety and Health (WSH) risks that they face at their daily work. At the end of each training, workers will take a quiz to determine if they understand the contents of the training.

The result of implementing the Safety Video Training has been positive so far. Since the implementation of the Safety Video Training in 2013, Chevron had managed to reduce their accident severity rate from 44 in 2013 to 8 in 2014. Accident frequency rate had also been reduced from 88 in 2013 to 39 in 2014. While Chevron believes that there is still more to be done to improve WSH, implementing RM strategies such as the Safety Video Training

moves them a step closer to providing a safer and more productive working environment for their employees.

*“Let us all take collective responsibility and ownership of health and safety at our workplace. The best gift we can give to our loved ones when we get home from work is our personal well-being.”*

Mr Casey Lee  
Director

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### **Kiat Seng Engineering**

At Kiat Seng Engineering, the safety of their workers is of paramount importance. Each day, workers are required to install and dismantle pipes and valves onboard marine vessels. The nature of their job exposes them to WSH hazards such as work at heights as well as slips, trips and falls. In addition, Kiat Seng Engineering employs a diverse workforce from different nationalities, which increases the challenge of communicating WSH risks to the workers.

To mitigate WSH risks, work processes are constantly being reviewed to ensure that jobs are carried out safely. In an effort to make sure that workers understand the risk that they are being exposed to, morning safety briefings are conducted by safety officers each day. Interpreters are also recruited to communicate WSH messages, to ensure that the workers from different nationalities understand the potential risks and hazards of their job.

*“Life is short for those who don’t think about safety and life is long for those who think about safety remember safety is everything and it started with us all.”*

Mr Ho How Seng  
Director

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