



GREEN BRIEFING

JANUARY 2023



Slips, Trips and Falls

Venue: Arab Ship Breaking & Recycling Industry

The GMS SSORP team conducted a training session for 18 Arab Ship Breaking & Recycling Industry workers on 3 January 2023, concerning a major cause of accidents in the workplace - "Slips, Trips and Falls". Slips and trips are the most common cause of injury at work and can lead to other types of accidents, such as falls from height or falls into machinery.

Most slips occur when floors become wet or contaminated and many trips are due to poor housekeeping, for example obstructions on walkways. Uneven surfaces, trailing wires and carelessly discarded equipment are also major trip hazards. However, measures to reduce the frequency of these types of accidents are often simple and cost-effective.

Walkways must be kept clear and all workers need to take responsibility for keeping them so. Efforts should be made to minimise the likelihood that walkways and work areas are contaminated by spills, and if a spillage does occur it should be cleaned up quickly. Lighting should be good enough for employees to see hazards and staff should wear footwear that is suitable for the environment they are working in.

Workers were also reminded of the importance of remaining alert in the workplace and not becoming complacent - absent mindedness can have serious consequences in a recycling yard.

Marking a General Arrangement plan to reflect dismantling

Venue: Mother Steel Ltd.



Members of the Mother Steel Ltd.'s Health, Safety and Environment (HSE) team and a senior representative of its On-board Cutting team participated in a training session on 15 January 2023. The session focussed on the documentation requirements associated with safe and efficient cutting activities, in accordance with GMS' SSORP.

The participants discussed permits to work, the importance of maintaining

accurate records and ensuring that daily activities are tracked and progress logged. In addition, they were briefed on how to correctly read and use a ship's General Arrangement plan (a 2D drawing of the profile and elevation views and deck plans). The trainer placed particular emphasis on how to mark daily recycling activities on the plan to assign worker tasks, promote worker safety and track their progress through the ship.

Correct use of PPE

Venue: Four Star Ship Breaking & Recycling Industry, Sitakundu



On 25 January 2022, a group of 12 workers from Four Star Ship Breaking & Recycling Industry participated in a tool-box briefing on Personal Protective Equipment (PPE).

The free course was delivered as part of GMS' Sustainable Ship and Offshore Recycling Program (SSORP). The workers

were reminded of the PPE available in the work environment, such as hard hats, safety glasses and hearing protection, and the importance of using it properly, for example wearing a hard hat's chin strap. Attendees were encouraged to ask questions about how best to protect themselves, in order to promote a safer working environment for all.



Emergency preparedness and mustering at assembly points

Venue: Master Steel & Oxygen Ltd, Sitakundu

In support of GMS' Sustainable Ship and Offshore Recycling Program (SSORP) 10 ship recycling yard workers from Master Steel & Oxygen Ltd. received emergency preparedness training on 28 January 2023. The aim was to improve awareness of the safety precautions and relevant response steps in the event of an emergency at the yard. The workers were briefed on the role and importance of muster points and the type of emergency situations that can occur during onboard recycling work.

The workers were reminded of the importance of maintaining discipline and following instructions during an emergency situation. Doing so contributes to effective incident response, which can help to reduce the number of incidental casualties and simplify the task of undertaking headcounts at muster points. The need to rehearse evacuation and response procedures, to ensure workers understand them, and to test the effectiveness of the procedures, was also stressed.

General safety awareness and crane safety

Venue: Yard 84D, EFCEE Global Ship Recycling PVT. Ltd.,
Alang-Sosiya Ship Breaking Yard,
Bhavnagar

On 28 January 2023, 11 representatives of various Ship departments and the Health, Safety and Environment (HSE) team from EFCEE Global Ship Recycling PVT. Ltd.'s Yard 84D, attended a workshop on General Safety Awareness and Crane Safety. The session covered workplace hazards in the ship recycling industry, such as fire, enclosed spaces, working at height, spillages and poor housekeeping.

Workers were briefed about the General Safety rules to be followed in the yard, Safe for Entry procedures, the significance of correctly maintaining, positioning and using Personal Protective Equipment (PPE) and the importance of good housekeeping. The course leader provided examples of past accidents and incidents to help attendees identify potential root causes and led discussions on how they could be avoided in the future. The importance of situational awareness and knowing emergency exits and evacuation routes (both onboard and in the yard) was stressed, and workers were reminded of the need to report both near-miss and actual incidents/accidents. The course leader also explained the significance of



administering First Aid on site to stabilise the condition of any casualties.

The workshop concluded with an open discussion about crane operations, including awareness of blind spots for crane drivers, cordoning off the area where the crane is operating, maintaining safe distance, the importance of proper planning, supervision and effective communication between the crane driver, assistant and other yard workers during crane operations. The procedures for using 2-way radios, whistles and sirens were also discussed.

General safety awareness

Venue: Yard 45, Inducto Steel Ltd. Alang-Sosiya Ship Breaking Yard, Bhavnagar



Eight employees of Inducto Steel Ltd.'s Yard 45 attended a training session on 30 January 2023 focussed on the importance of creating a safety culture throughout an organisation. The attendees were briefed on the correct use and maintenance of Personal Protective Equipment (PPE); working in enclosed spaces; working at height; and fire prevention and response. To illustrate root causes of accidents and how best to avoid them, the

course leader provided examples of past accidents and incidents drawn from personal experience.

The course leader also explained the importance of convening regular toolbox briefings, to reinforce key safety messages about workplace hazards, such as potential carcinogenic and/or toxic substances in shipyards, working in enclosed spaces and fire.



Enclosed spaces - Safe for Entry and SCBA

Venue: Yard 88, Atam Manohar Shipbreakers Pvt. Ltd, Alang-So-siya Ship Breaking Yard, Talaja, Bhavnagar

With their limited openings for entry and exit, and inadequate ventilation, enclosed spaces are not designed for extended human occupancy. As well as being poorly illuminated and often cramped, the atmosphere in an enclosed space may be oxygen-deficient or oxygen-enriched and/or contain flammable and/or toxic gases or vapours. As such, they pose a significant health and safety risk to those tasked with entering them.

To promote awareness of the risks associated with working in enclosed spaces, 22 employees from Atam Manohar Shipbreakers Pvt Ltd, attended a training course on 30 January 2023. Attendees were briefed on the hazards linked with working in enclosed spaces on board ships, for example cargo spaces, fuel tanks, ballast tanks and void spaces. The

session also covered safety precautions in enclosed spaces, including "Safe for Entry" procedures to ensure the environment is checked before entering the space, using suitable portable atmosphere testing equipment.

The correct use of appropriate equipment, for example blowers to circulate fresh air in confined spaces, multi-gas detectors, Self-Contained Breathing Apparatus (SCBA sets), Emergency Escape Breathing Device (EEBD), and pre-positioning access/egress and evacuation equipment was re-emphasised throughout the session. Safe working practices, safety preparedness and fire control measures were also covered to ensure attendees received comprehensive guidance.



Hazardous material handling

Venue: Yard 128, Guruashish Ship Breakers Alang-Sosiya Ship Breaking Yard, Talaja, Bhavnagar

To promote worker safety at Guruashish Ship Breakers, 15 workers from Yard 128 attended a workshop on 31 January 2023. The training focussed on raising awareness of hazardous materials commonly found in recycling yards and the health risks associated with them, and also considered the impact of specific waste on the environment.

The 15 employees were instructed on techniques for safe handling of Polychlorinated Biphenyls (PCB); chemicals such as acid, base and flammable materials; oily wastes; paint chips; used batteries and glasswool. The particular risks posed by exposure to Asbestos Continuing Materials (ACM) and PCB were discussed in detail. Attendees were taught how to identify different types of waste from vi-

sual inspection, for example awareness about asbestos used as a form of insulation on older vessels; the likely locations of asbestos on board ships; asbestos label recognition; and what to do in the event that asbestos is found, including the importance of isolating and cordoning off the area to limit exposure to, and spreading of, the material.

The course leader also listed the type of Personal Protective Equipment (PPE) the yard is expected to provide - and maintain - to ensure appropriately trained workers can handle ACM safely, including face masks, protective glasses and gloves. Attendees also benefited from a general discussion about HazMat labels and their significance.



Personal Protective Equipment awareness

Venue: Yards 9 and 10, New Choice Enterprises, Gadani

Fifteen workers from Yards 9 and 10, owned by New Choice Enterprises, attended a training workshop on 28 January 2023, concerning Personal Protective Equipment (PPE).

During the interactive session the trainer provided details of a workplace accident they had witnessed where those involved were not wearing appropriate PPE. To increase their understanding of work-

place hazards and the benefits of PPE, the attendees were encouraged to discuss the causes as well as pre-accident conditions, the emergency response and the findings of the post-accident investigation. The aim of the session was to reduce the likelihood of a similar accident befalling them in the future. The importance of good house-keeping and the correct storage and use of PPE was also discussed.



Training Topic: The importance of collaborative working during “Hot Work”

Venue: Yard 42, New Choice Enterprises.

In support of GMS' SSORP, workers at the New Choice Enterprises' Yard 42 attended a training workshop on 28 January 2023, regarding “Hot Work”. Hot Work is a key element of the ship recycling industry but also one of the most dangerous aspects of the working environment, which means training courses are of the utmost importance.

The workshop prioritised how to carry out fire safety risk assessments, as well as keeping sources of ignition and flammable substances apart. The participants also discussed the importance of maintaining vigilance in the workplace, team working, clear communication and effective coordination during Hot Work.

By the end of the training the employees were able to identify appropriate safety precautions, such as wearing the correct Personal Protective Equipment (PPE) and the importance of removing combustible materials from an area before commencing work.

The course leader also spoke about the various types of fire extinguishers and how best to use them. Importantly, the risks associated with incorrect use of fire extinguishers were also discussed, for example cold burn from CO2 extinguishers, and were advised to wear appropriate Personal Protective Equipment (PPE), such as gloves in order to avoid cold burns.

Training Topic: Using gas detectors

Venue: Yards 13 and 14, Jamaluddin and Company.



The Health, Safety, Environment (HSE) team of Jamaluddin and Company's Yards 13 and 14 attended a workshop organised by GMS on 28 January 2023. The aim of the workshop was to ensure workers are properly trained to comply with the SSORP.

The participants were briefed on the unique challenges of working in enclosed spaces, and its associated risks such as reduced oxygen levels and toxic fumes.

The course leader discussed the importance of correctly calibrating multi-gas detectors, which use a combination of sensors to simultaneously detect different gases. Attendees were instructed on the safe limits of Oxygen (O₂), Carbon Monoxide (CO) and Hydrogen Sulphide (H₂S) and advised of the lower explosive limit (LEL) of each of the gases, i.e. the lowest point of concentration of a gas at which it becomes flammable in the atmosphere.



Training Topic: Correct use of fire extinguishers

Venue: Yard 40, Jamaluddin and Company

Fire is one of the biggest hazards within a ship recycling yard. As part of the GMS SSORP risk management procedures, workers from Jamaluddin and Company's Yard 40 attended a Fire Safety training workshop on 28 January 2023.

After discussing the three components of the Fire Triangle, they were briefed on different classifications of fire: Class A (solid materials, including wood, paper, cloth and plastics); Class B (liquids, for example diesel, lubricants and fuel oils);

and Class C (electrical and gas).

Once the attendees had demonstrated their familiarity with the fire classification system, the course leader provided instruction on what to do in the event of a fire, including an explanation of RACE (Rescue, Alarm, Contain and Extinguish/Evacuate), the different types of fire extinguishers, the importance of selecting the correct extinguisher before attempting to tackle a fire, and how to use them effectively.



Why does GMS offer free training to ship recyclers through its SSORP programme?

Unsafe ship recycling not only endangers human life but also has a wider impact on society and the economy. As the world's leading cash buyer, we are more aware than anyone of the devastating impact on individuals and the environment that can result from avoidable accidents during the recycling process. That's why we offer free training and education to ship recyclers - to help keep yard workers safe, healthy and in employment.

Robert W. Campbell an early 20th-century pioneer in the safety movement famously said "Safety work is today recognized as an economic necessity. It is the study of the right way to do things". We agree and will continue to offer free training to those who need it most.

Kindly send us your queries on the Green Briefing or inquiries about the GMS Sustainable Ship and Offshore Recycling Program at green@gmsinc.net

Athens, Greece Tel: +30.210.899.0669
Bhavnagar, India Tel: +91.278.222.5253
Cumberland, USA Tel: +1.301.759.9240
Dubai, UAE Tel: +971.4.423.0720
Hamburg, Germany Tel: +49.40.3197.9963
London, UK Tel: +44.792.081.1412
Manila, Philippines Tel: +63.92.9168.2269

Mumbai, India Tel: +91.982.047.98.38
Rio de Janeiro, Brazil Tel: +55.21.9798.03782
Seoul, South Korea Tel: +82.10.4650.0720
Shanghai, China Tel: +86.216.075.1900
Singapore Tel: +65.6823.8037
Tokyo, Japan Tel: +81.3.5453.6311

