

PROJECT UPDATES

ALPHA 01
Pre Heat Recovery

HSE FOCUS:

HEAT EXHAUSTION
WHILE FASTING

WORKPLACE SAFETY & HEALTH
HANDBOOK

LORRY CRANE
OPERATORS

//02

HEAT STROKE
ALERT

WHAT HAPPENED?

1. On 10th June 14 at approximately 17:10 workers were instructed to remove shoring struts in an excavation to enable another IC to launch pipe spools for installation of a cooling water line. Excavation is approximately 2m deep.
2. While removing the shoring at one end of the trench the soil/sand behind one of the shoring plywood slanted from its original position.
3. The IC site engineer immediately stopped the activity and removed the workers from the trench.
4. Soil was removed and 3 plywood shoring boards with struts applied to rectify.

BARRIERS THAT FAILED

- Shoring not applied as designed by PE.
- Inspection of the ground condition not properly executed before removing the struts.

HSE ALERTS

Collapsed Shoring



Photos for illustration purpose only

REMEDIAL ACTIONS

- Shoring must always be applied as designed by PE.
- Where more than one shoring design is available the safest method must be used.

- Soil conditions must be inspected by a competent person prior removing the shoring struts and shoring.
- All concerned parties must be consulted before removing shoring to ensure conditions are safe for the workers to enter.

WHAT HAPPENED?

1. On 19th August 2014 at approximately 09:30, the IP was walking from LEO-P to MEG.
2. IP was walking behind 2 other IC workers carrying a 3m x 1.2m BRC mesh. Mesh was carried overhead with approximately 300 mm overhang at the back.
3. Due to space constraint the walkway became narrower and the IP moved to the left, corner side, of the BRC that was carried. When the workers carrying the mesh made a right turn, the IP was caught behind his right ear by the mesh that resulted in a laceration.

BARRIERS THAT FAILED

- Following distance of IP was too close to the BRC being carried.
- Failure to identify the hazard of contact with the BRC when the walkway became narrower.

MTC: Laceration behind right ear of IP

IMMEDIATE ACTIONS

- IC was taken to the LEO-P first aid station where first aid was provided.
- IP was then referred to the West Point Clinic where he received 4 stitches and a tetanus injection.
- X-Rays were taken that revealed no further injuries.

IMMEDIATE ACTIONS

- BRC should be transported by vehicle if & when practical.
- 4 workers instead of 2 should carry BRC material to prevent overhead carry.
- This will allow workers to observe other workers that might come into the line of fire.
- Project workers to be made aware of the hazards when walking behind workers carrying construction equipment through TBT's & HITS.
- Shorten carry distance by providing temporary storage area closer to job location.
- Workers carrying the BRC should be placed at the front and back edge of the material to be able to observe other workers.



Photos for illustration purpose only

FEEDBACK

Tell us what you like best about the newsletter and how we can make it even better.

Send your feedback or comments to asri@hsl.com.sg

ALPHA 01'S STRONG FINISH

//PROJECT MILESTONES



Good Practices on Site – Rebar were elevated from the ground to minimize contact with soil and covered with canvas when rebar work is not in progress.



Welfare for Workers – Celebrating June babies

“The real enemy of safety is not non-compliance, but non-thinking.”

SAFETY QUOTES



PROJECT TITLE

ALPHA 01 PRE HEAT RECOVERY Project

EPCM

Jacobs Engineering Singapore Pte Ltd

OWNER

Lucite International Singapore Pte Ltd

START DATE

Nov 2014

COMPLETION DATE

September 2015

CHALLENGES & ACHIEVEMENTS

Challenge that we having since the day we started till up to date, the work area was congested (size of a half football field) being occupied with 3 to 5 contractors with a total of 200 manpower daily at site.

To overcome this challenge we conducted a mass toolbox daily and inform of the work that we will be doing and in additional Task safety Analysis (TSA) was conducted

at site to highlight on the environment hazard to look out for.

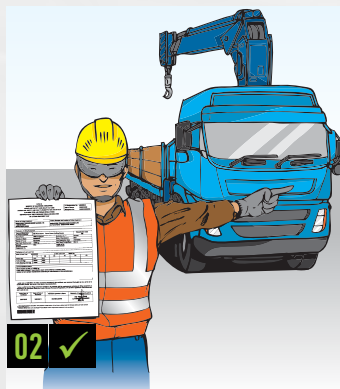
Despite the challenges that the team had encounter we able to achieve the target TOP-01 Date for Completion with the help of everyone in the team and guidance from the main-con with non recordable incident/accident.



Safety First! – A hearty congratulations to the Alpha 01 Project Team!



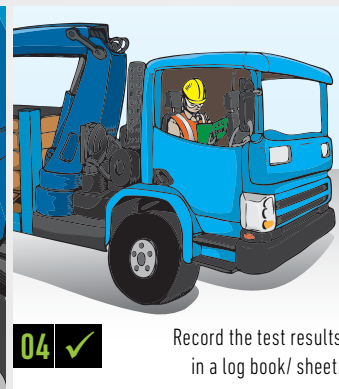
01 ✓ Must possess a valid training certificate after completing the Lorry Crane Operator Course.



02 ✓ Ensure that the lorry crane has a valid Certificate of Test and Examination issued by an Authorised Examiner.



03 ✓ Refer to the load chart and identify the safe working load of the lorry crane.

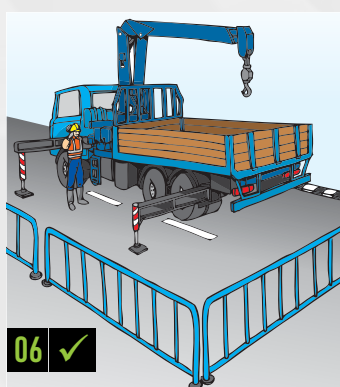


04 ✓ Record the test results in a log book/ sheet.

Conduct daily operational tests on all limiting and indicating devices under no load conditions at the start of every shift.



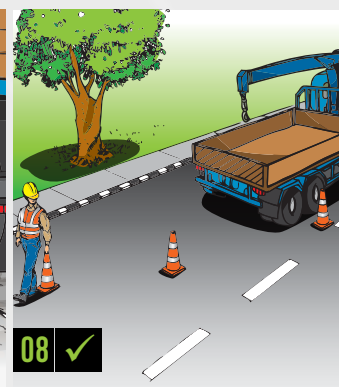
05 ✓ Make sure the Lifting Plan has been established for the load and the entire lifting team has been briefed on the plan by the Lifting Supervisor.



06 ✓ Check the ground condition is safe for travelling and lifting before starting any operation. Report any unsafe ground conditions to your Lifting Supervisor.



07 ✓ Ensure that the outriggers are fully extended and set up on a firm and levelled ground.



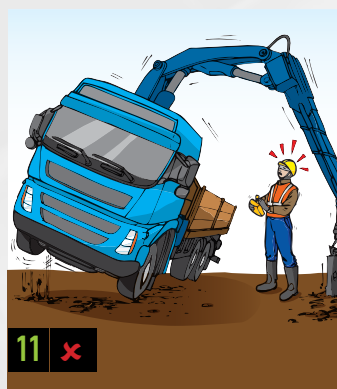
08 ✓ Conduct all lifting operations within the designated area or cordoned off road.



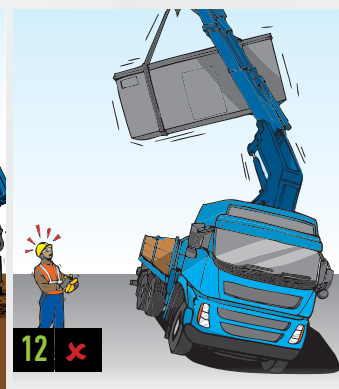
09 ✓ Refer to the load chart and identify the safe working load of the crane.



10 ✗ Do not leave the crane unattended while a load is suspended in mid-air.



11 ✗ Do not use the crane to pull or drag any load.

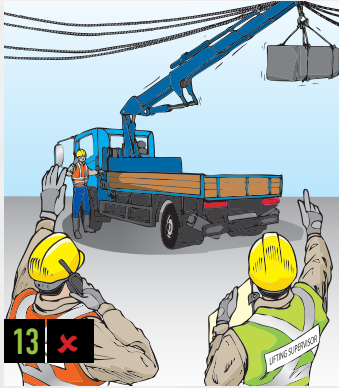


12 ✗ Do not overload the crane or carry out dangerous activities.

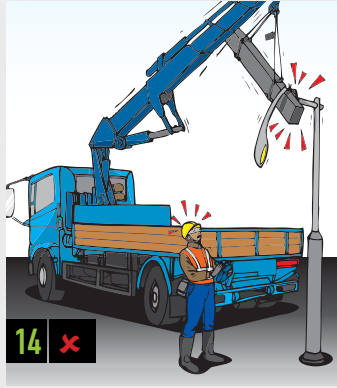
HSE FOCUS

Published in September 2012 by the Workplace Safety and Health Council in collaboration with the Ministry of Manpower. This publication is available on the Workplace Safety and Health Council Website: www.wshc.sg

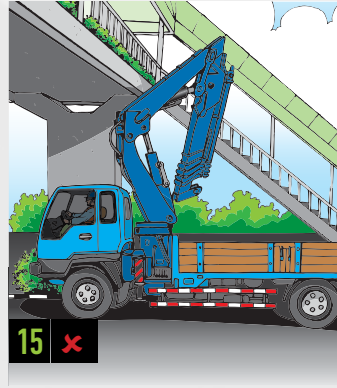
Handbook: Lorry Crane Operators



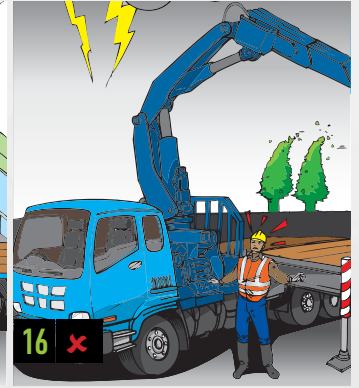
Perform all lifting operations at least 3 metres away from overhead power lines.



Do not conduct any lifting operation if the path of operation is obstructed.



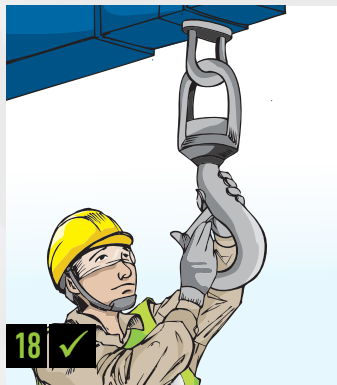
Do not leave the boom and outriggers of the lorry crane extended when travelling on the road.



Do not operate in severe weather conditions such as rain, strong winds and under poor lighting conditions.



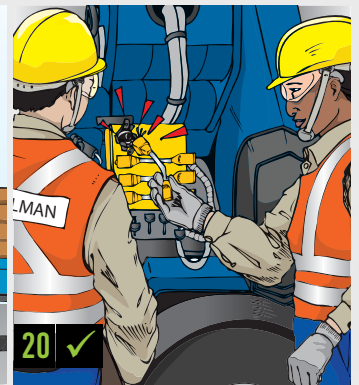
Check that the lorry crane is adequately and securely blocked while it is parked on a slope.



Check all lifting gears are certified and in good working condition before any lifting operation.



Regularly update the maintenance and operation log book/ sheet.



Report any failure or malfunction of the lorry crane to the Lifting Supervisor and record it in the log book/ sheet.



Symptoms to watch out for

SUPERVISORS:

1. Should identify all the workers who are fasting.
2. Should monitor these workers closely for symptoms of ill health.
3. Should ensure adequate and regular rest breaks for all their workers.

WORKERS WHO ARE FASTING:

1. Should get adequate rest at night.
2. Should drink lots of water when they break-fast or before they fast.
3. Should report to their supervisors if they feel unwell at any point in time.

TIPS: Fasting & Heat Exhaustion

Starting from 18th June 2015, the month of Ramadan, is a time for the followers of Islam to practice fasting from before sunrise to after the sun sets as part of a spiritual rejuvenation.

Ensuring a Healthy Ramadan:

Cooperation between the different categories of the workforce is important to help ensure that all the Muslim workers who are fasting remain healthy throughout.

Breaking Fast during Sickness is Permissible

The Islam faith does not dictate that its followers must persist with fasting even when they are ill. They can break fast to receive medications, fluids and nutrients to help them recover. This will allow the followers to follow the religion with a fit body. If you or any of your workers does not feel well, they should be brought to see the doctor for early medical attention. Early treatment is essential for prevention of more serious complications as a result of fasting and heat.

Bodily Effects of Fasting

However, being without regular intake of food and water through the day can add stress on the body of a person working under the already adverse hot and humid outdoor environment in this country.

Some of the possible effects are:

1. More likely to develop dehydration, giddy or fainting spell.
2. Higher chances of developing complications (e.g. Heat exhaustion, Heat stroke).

INTRODUCTION TO

CRANE DATA LOGGERS

Following a two-year feasibility study on installing data loggers in mobile cranes, the Ministry of Manpower (MOM) announced in April 2015 that all mobile cranes registered with MOM on or after 1 August 2015 must be equipped with data loggers. Existing mobile cranes registered before 1 August 2015 will also have to be retrofitted with data loggers by 1 August 2018.

A data logger records crane operational data such as the weight of load and lifting radius, and provides information on unsafe operations including overloading or bypassing. It allows crane owners and occupiers to monitor the performance of crane operation and improve planning for lifting operations. Better planning helps to improve productivity and shape the behaviour of crane operators by encouraging them to be more safety conscious in their daily operations.

With this information provided by the data loggers, they could take proactive intervention programme to prevent any unsafe operations. Data loggers can also aid in the investigations of crane-related incidents as they provide vital operational information relating the circumstances leading to the incident.

Please read about the Ministry of Manpower's requirements to equip cranes with data loggers and requirements of the data logger at the link below.

<http://www.mom.gov.sg/workplace-safety-and-health/licences-certificates-and-registrations/lifting-equipment/data-loggers-for-mobile-cranes>

GOVERNMENT UPDATES



Ministry of Manpower cancels accreditation status of five training providers

26 June 2015, Ref: 1516022

The Ministry of Manpower (MOM) has cancelled the Accredited Training Provider (ATP) status of five training providers for training and assessment malpractices which compromised the integrity of the Workplace Safety and Health (WSH) courses conducted.

The MOM ATP scheme accredits training providers to conduct Workplace Safety and Health (WSH) courses on behalf of MOM. Unaccredited MOM training providers are not allowed to conduct MOM-accredited courses. The full list of ATPs can be found on MOM's website.

Acting on information received from the public and MOM's regular audits, MOM investigated five training providers for alleged violation of ATP Terms & Conditions (T&C). They are:

- Work Safe Academy Pte Ltd;
- Propel Consultants Pte Ltd;
- Regent Global Consultants Pte Ltd;
- Bright Training Centre Pte Ltd and;
- Ark HSE Management Solutions Pte Ltd

MOM's investigations found that the training providers failed to conduct courses according to stipulated course durations, failed to ensure trainees' language proficiency for the courses and failed to uphold the integrity of examination procedures.

The accreditation status of the five training providers has been cancelled and will no longer be allowed to conduct MOM-accredited courses. In addition, the Directors of these training providers will not be allowed to apply as an ATP Director, Principal and or Trainer with MOM for two years from the date of cancellation.

Poor training practices of ATPs may be reported to MOM.

*Visit the WSH Council's website now for updates on WSH-related matters, information and events.



Prevent all injuries & Be healthy

A quality life starts by being safe and healthy at work.
Visit www.wshc.sg/mom/momscampaign

HOW YOU WORK IS HOW YOU LIVE

**“Tomorrow—
your reward for
working SAFELY
today.”**

SAFETY QUOTES