

OFFICE MEETING letter 2

Preparation Hoisting and Lifting operations

Why this theme?

Every year hoisting and lifting activities lead to (near) incidents, among other things because of incomplete planning, because we are in the 'line of fire' during the executing or because we are careless in using tag lines or because we don't use them at all. Safe hoisting and lifting means having the knowledge of the appropriate techniques, using the appropriate materials and tools, training, experience, good preparation and execution with appropriate measures and adequate supervision.

How do you know if the work is done safely?

Good preparation is essential in order to lift safely. In the design and during work preparation, several matters must be taken into account. In this session we focus on **'Hardware barriers'**.

- Check out the points of interest on the other side of this letter and discuss with each other which points are important to the chosen activity.
- How do you ensure that issues at a location are actually implemented?

BARRIERS & CRITICAL PROCESSES LIFTING & HOISTING/MOBILE HEAVY EQUIPMENT		
Hardware Barriers	Human Barriers	Critical Processes
GENERIC <ul style="list-style-type: none"> <input type="checkbox"/> Structural Integrity <input type="checkbox"/> Process Containment <input type="checkbox"/> Ignition Control <input type="checkbox"/> Detection Systems <input type="checkbox"/> Protection and shutdown Systems <input type="checkbox"/> Emergency Response equipment <input type="checkbox"/> Personal Survival Equipment LIFTING & HOISTING & MOBILE HEAVY EQUIPMENT SPECIFIC <ul style="list-style-type: none"> <input type="checkbox"/> Equipment Design, e.g.; <ul style="list-style-type: none"> <input type="checkbox"/> Rollover Protection, <input type="checkbox"/> Safety Cut-Off Devices, <input type="checkbox"/> Dead Man switches, <input type="checkbox"/> Load Moment Indicator, <input type="checkbox"/> Visibility Mirrors, <input type="checkbox"/> Taglines <input type="checkbox"/> Equipment Monitoring Systems, e.g.; <ul style="list-style-type: none"> <input type="checkbox"/> In Vehicle Monitoring System, <input type="checkbox"/> Data Logger, <input type="checkbox"/> Collision Avoidance Devices, <input type="checkbox"/> Physical Barriers, e.g.; <ul style="list-style-type: none"> <input type="checkbox"/> Exclusion Zones, <input type="checkbox"/> Boundary Markers, <input type="checkbox"/> Hard & Soft Barriers, <input type="checkbox"/> Berms made of soil 	GENERIC <ul style="list-style-type: none"> <input type="checkbox"/> Operating in accordance with procedures <input type="checkbox"/> Surveillance, operator rounds and routine inspection <input type="checkbox"/> Authorization of temporary and mobile equipment <input type="checkbox"/> Acceptance of handover or restart of equipment <input type="checkbox"/> Response to alarms and upset conditions <input type="checkbox"/> Response to emergencies LIFTING & HOISTING & MOBILE HEAVY EQUIPMENT SPECIFIC <ul style="list-style-type: none"> <input type="checkbox"/> Situational Awareness (not being in the Line of Fire!) <input type="checkbox"/> Being always alert and PAUZE, Step back, when needed <input type="checkbox"/> Daily Equipment Inspections, Use of Checklists, <input type="checkbox"/> Site Communications (Verbal & Non-Verbal), <input type="checkbox"/> Use of and respect for Signalers, <input type="checkbox"/> Fitness for Duty 	GENERIC <ul style="list-style-type: none"> <input type="checkbox"/> Permit to Work (Job Hazard Analysis, Last Minute Risk Assessment) <input type="checkbox"/> Emergency Response/Management <input type="checkbox"/> Competency Management <input type="checkbox"/> Management of Change LIFTING & HOISTING & MOBILE HEAVY EQUIPMENT SPECIFIC <ul style="list-style-type: none"> <input type="checkbox"/> Design Layout, e.g.; <ul style="list-style-type: none"> <input type="checkbox"/> Constructability Reviews, <input type="checkbox"/> Equipment Selection, <input type="checkbox"/> Physical Barriers <input type="checkbox"/> Company Standards & Equipment Operating Procedures <input type="checkbox"/> Maintenance & Inspections of Equipment & the site <input type="checkbox"/> Certification of materials and Equipment <input type="checkbox"/> Worksite Hazard Assessment & Control

As an alternative, one might visit a site and, on the basis of a checklist, discuss the implementation of the measures with persons at a location.

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“Hardware barriers”

GENERIC

- ☐ Structural Integrity
- ☐ Process Containment
- ☐ Ignition Control
- ☐ Detection Systems
- ☐ Protection and shutdown Systems
- ☐ Emergency Response equipment
- ☐ Personal Survival Equipment

LIFTING & HOISTING (MOBILE EQUIPMENT) SPECIFIC

- ☐ *Equipment Design, e.g.:*
 - ☐ Rollover Protection
 - ☐ Safety Cut-Off Devices
 - ☐ Dead Man switches
 - ☐ Load Moment Indicator
 - ☐ Visibility Mirrors
 - ☐ Taglines
- ☐ *Equipment Monitoring Systems, e.g.:*
 - ☐ In Vehicle Monitoring System,
 - ☐ Data Logger,
 - ☐ Collision Avoidance Devices,
- ☐ *Barriers, e.g.:*
 - ☐ Exclusion Zones
 - ☐ Boundary Markers
 - ☐ Hard & Soft Barriers
 - ☐ Berms made of soil