



LISNAVE IS A COMPANY OF REFERENCE IN THE INTERNATIONAL NAVAL MAINTENANCE AND REPAIR MARKET







LISNAVE IS A SHIPYARD DEDICATED TO:

- Ship repairing
 - Dangerous cargoes ships



- ✓ Crude oil tankers; LNG; LPG, OBO, OO, Chemicals; others
- No dangerous cargoes ships
 - ✓ General cargo ships; Passenger ships; Container ships, Roro ships; Dredgers; others
- Ship conversions







SHIP REPAIR ACTIVITIES HAVE SEVERAL HAZARDS/RISKS

- Dangerous atmospheres in enclosed spaces
- Suffocation, poisoning ... DEATH....
- Fires/Explosions
- Spillages
- Slips, trips and falls
- Fall from heights....severe consequences
- Struck by or against objects
- Dropping objects
- Exposures to: electricity, chemicals, noisy, air compressed, steam, dust, mists.....









SOME MAIN HAZARDS

- Hot Works (welding, cutting, grinding...)
- Enclosed spaces entry (cargo, ballast, bunker tanks)
- Height works (Erecting scaffoldings, ladders, masts...)
- Flat openings (floor openings, manhole covers, gratings...)
- Manual cargo handling
- Mechanical cargo handling (Use of cranes, chain blocks, wire ropes...)
- Chemicals (washing, degreasing with solvents, great blasting, painting...)
- Housekeeping (Scaffolding items, hoses, cables, pipes, machineries, scrapping...)
- Cleanliness (cargo residues, plastics, papers...)











LISNAVE HAS A SAFETY ORGANIZATION AND SAFETY PROCEDURES AND RULES TO FACE REFERRED HAZARDS/RISKS:

□ Safety Organization Summary

- Company Safety Department.
- Company Fire Brigade.
- Gaslimpo (Independent Chemist Company certified by Port and National Authorities)



- Sagies (Independent Company certified for Hygiene and Health at the yard and operating the Health Centre)
- Prosegur (Independent Security Company)
- All these companies are coordinated by Lisnave Management and subject to Lisnave specific Policies and Manuals





LISNAVE HAS A SAFETY ORGANIZATION AND SAFETY PROCEDURES AND RULES TO FACE REFERRED HAZARDS/RISKS:

Procedures and Rules Summary

- Health and Safety Policy
- Health and Safety Procedures
- Internal Safety Standards
- Work Permission System



- Hazardous/Risks Manual (risk assessment procedures and basic tables)
- Internal Safety Information



SAFETY DEPARTMENT

LEGISLATION AND REGULATION FOLLOWED

EXTERNAL

- Portuguese and European Legislation and Regulation related to Health and Safety
- Portuguese and European Standards



- OCIMF Oil Companies International Marine Forum -Shipyard Safety
- ISGOTT International Safety Guide for Oil Tankers & Terminals
- IMO code International Maritime Organization
- ACGIH American Conference of Governmental Industrial Higienists
- ISPS International Shipping and Port Facilities Security Code
- Clients Requirements whenever not covered by the International or EU regulations.





LEGISLATION AND REGULATION FOLLOWED

□ <u>INTERNAL</u>

- Health and Safety Policy
- Quality Manual/Quality Procedures
 - ✓ Procedure PGQ 16 Accident Prevention and Safety
 - ✓ Procedure P 10 Safety and Health Management
- Lisnave Standards
- Manual of the Prevention and Safety Technical Procedures
- Manual of Identification and Control and Mitigation of Hazards
- Internal Informations regarding the HS matters







□ SAFETY DEPARTMENT

- Has a staff certified by national authorities
 - Safety manager / General safety co-ordinator / technicians
- > Assure and coordinate safety on the shipyard regarding:
 - Local hazards identification and risk assessment
 - Risk prevention at work sites (elimination and/or control)
 - Work permits issuing
 - Accident investigation, statistics and reports
 - Promote of safety information and training
 - Co-ordination the safety activities in all external companies that participate on the yard activities







□ FIRE BRIGADE



- > Has certified manager, supervisors and firemen
 - Lisnave and employed subcontractors professional firemen
 are full fire fighting and first aid trained personnel
 - Firemen are equipped with the necessary means for fire watching, fire fighting and rescuing operations
 - Assure the general fire watching aboard ships and hot work assistance.
 - Provide the first aid to the individual that have suffered an accident.
- An ambulance with permanent driver is in attendance at the Fire brigade Shipyard headquarters.









- **GASLIMPO** (Chemist company)
 - It is an independence company duly certificated by Port and National authorities
 - Has:
 - Gas inspector manager, supervisor and chemist technicians;
 - Certificated gas searching apparatus duly calibrated and certified procedures for its control;



Issues a gas free certificate required prior to entry into shipyard, a daily gas free certificate and hot work permits on the ships that carry dangerous cargoes in any enclosed space and connected items (pipe lines, pumps, valves, etc.)





SAGIES (Health centre)



- It is an independent company that provides health and hygiene services
 - Having permanent nurses at yard during 24 hours. A doctor is in attendance during day shift;
 - Granting medical assistance to all the yard workers and other individuals when required;
 - Carrying out medical inspections to the yard workers
 and subcontractors.







PROSEGUR (Security Service)



- It is an independent company
 - Has security supervisors and inspectors
 - Provides the surveillance and controls the access to the shipyard.
 - Controls movements of personnel, equipments and materials at yard main gates.



- Carry out rounds in all yard.
- The entry of potentially hazardous materials will only be allowed after permission by Safety Department.
- Is an important part of the ISPS code control





- Yard Safety officer Has a green band in his white helmet with the sentence - SAFETY TECHNICIAN – TÉCNICO DE SEGURANÇA
- Chemist Safety officer Has a blue band in his white helmet with the sentence - GAS INSPECTOR - QUÍMICO







- Firemen They have a red band in their white helmets and wear red suits with the word FIREMAN (on their back)
- They use normal PPEs and also have individual whistle to be used for local alarm

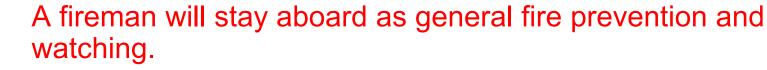






FIREMEN ASSISTANCE ABOARD – GENERAL RULE

In Ships with yard/subcontractors/crew work on progress



- Additional firemen will be employed for local hot work assistance, depending on risk analysis made by safety technicians/chemists.
- In Ships without any kind of work on progress particularly during night period (00h00 to 08h00) or at week end.
 - A fire patrol performs a regular ship inspection





MEETINGS ON BOARD OF VESSELS

- Safety and Production meetings scheduled for ship repairing are:
- On arrival of the vessel, a Safety Kick Off Meeting will be arranged by the yard ship Project Manager with the ship's representatives (Superintendent, Captain, Chief Officer, Ship Engineer and other crew members).
- A Daily Yard Safety/Production meeting with the presence of the yard Project Manager and safety/production team.
- A Daily Safety/Production meeting with the presence of the yard Project Manage and the ship's representatives.









JOB SAFETY ANALYSIS

- ACCIDENTS ARE CAUSED THEY DON'T JUST HAPPEN BE CAREFUL BE AWARE BE SAFE
- Identification Hazards are made regularly during the daily inspection carried out by safety technicians at the work sites.
- Before starting any activity on board a risk analysis is developed by safety technicians/chemists with the assistance of project manager team and supervisors in charge with the work to be carried out.
- There are a permit to work system used as preventive and control measures.
- Safety technicians may stop any work which he may find is being performed with an unacceptable safety risk





WORK PERMISSION SYSTEM

- Ship access by using individual identification ca
- Enclosed space safe entries (Gas free certificate)
- Hot work permits
- Scaffolding approval
- Shot blasting and painting operations in confined spaces
- Use of danger substances aboard ship (ex. Solvents)
- Lockout/Tag out for energy systems (ex. electrical works, remote control of cargo and ballast tanks valves, ruder, radars, and so on)
- Bunkering, transferring of oil or other substances to ship
- Other danger activities





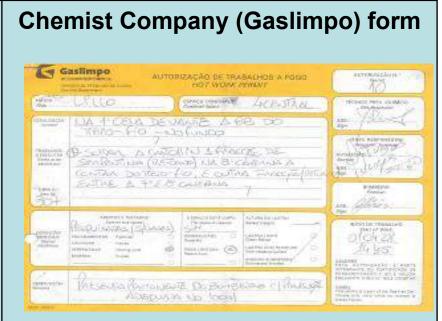
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Yard safety officer issues hot work permits:

-In dangerours cargo ships – in open areas, such as: engine room, superstructure and main deck.

-In no dangerours cargo ships – all over the ship.



Chemist officer issues hot work permits: -In dangerours cargo ships – in enclosed spaces and connected items (pipe lines, pumps, valves, etc.) -In no dangerours cargo ships – if

required by client or Safety Department.





GAS FREE CERTIFICATE

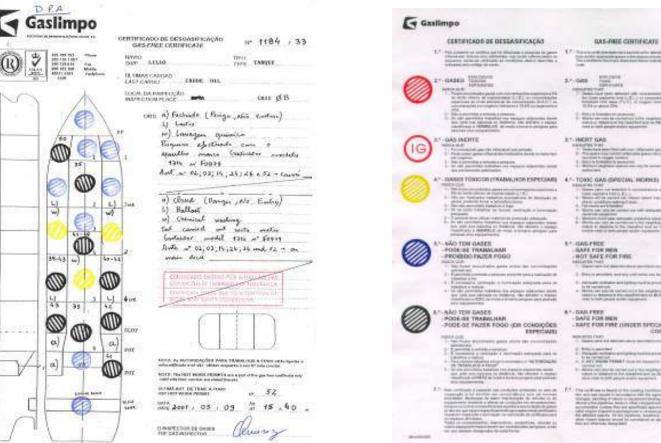


- All vessels coming into the yard, that have carried dangerous cargoes, are only authorized to enter the yard if they first have be certified Gas Free by the Competent Entity/Chemist company
- Such gas searching certificate must show safe values for entry in the shipyard premises
- A Gas Free certificate is in principle valid for 24 hours
- A new certificate must issued even if the 24 hours validity period has not ended if any alteration has occurred that may cause changes in the confined space





GAS FREE CERTIFICATE FORM



GAS-FREE CERTIFICATE

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MA/JC





Label Red – NOT SAFE FOR MEN NOT SAFE FOR FIRE –
 entrance is not allowed

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Label Blue – SAFE FOR MEN NOT SAFE FOR FIRE – cold works
 are permitted, hot works are not allowed

			ENTRY CERTIFICATE
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Ken			- NOT SAFE FOR FIRE INDICATES TRAT:
6.1			1 - Gases were not detected above permitted concen- trations.
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MA/JC





Label Black – SAFE FOR MEN SAFE FOR FIRE – hot work permit issued

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			- GAS-FREE
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MA/JC





Label Yellow – SPECIAL WORKS (PAINTING FOR EXAMPLE) –
 TOXIC VAPOUR/GAS EMISSION – entrance reserved

	and a successful to		ENTRY CERTIFICATE
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• Label IG – ENCLOSED SPACE INERTED AND CLOSED – Entry is forbidden for people (the space may contain flammable gas)

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 Gas free certificates and hot work permits are posted on board near yard gangway



Color card stamped at a cargo tank hatch cover

Ex. Blue card - In that case the enclosed space is classified as Safe For Men Not Safe For Fire (blue card)







SCAFFOLDINGS



- Scaffolding must be erected according specific yard and national safety rules
 - Scaffolds workers must use safety harness
- Scaffolds must be prior approved by a yard safety technician before they are used by the workers a tag will be attached
- If the scaffolding become unsafe than a label may be displayed by the yard safety technician prohibiting the use of such scaffold





SCAFFOLDINGS – APPROVAL DOCUMENT

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A CALINGANIA
N -nephennoon



MA/JC





SCAFFOLDINGS TAGS

APPROVAL TAG

After scaffolding approved the yard safety officer will post this white tag

UNSAFE TAG

If scaffolding is unsafe the yard safety officer will post this yellow tag







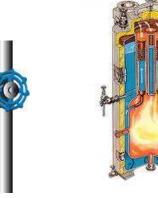


LOCK OUT/TAG OUT SYSTEM

- Is applied in SOURCE POWERED SYSTEMS AND OR EQUIPMENT'S, such as:
- Radar;
- Propeller or rudder;
- Cargo, bunker, ballast or stripping tanks valves;
- **Boiler**;
- Electrical equipment's.









MA/JC





LOCKOUT/TAGOUT-LABEL AND DEVICES











LOCKOUT/TAGOUT FORMS

ESTALEIROS NAVAIS, S.A.	Safety Department/Prevenção e Segurança
Lockout/Tagou	t request/Pedido de Travamento/Etiquetagem
VESSEL'S NAME/NOME I	DO NAVIO: MAEBSK BULAN
mentioned machinery/equi	ers/crew members/others it is requested that the under ipment must be kept in off position, nça dos trabalhadores/fripulantes/outros é requerido que a maquinaria / ado se mantenha desligado:
 Rudder Leme Other (machinery/equinous content) Outro (descrição da maque) 	
the appointed Responsible	r/energy supply shall be removed/ disconnected / isolated by Ship's Officer and sealed /tagged. de energia deve ser removida/des/igada/isolada pelo Oficial Responsável
proper work sites inspectio and equipments are positior A remoção do selo e da etique do estaleiro depois duma inspe	an only be done with Yard Safety Officer permission after a on in order to confirm that no works are in progress and workers ned safely. It somente pode ser feito com a autorização do Técnico de Segurança eção ao local de trabalho de modo a confirma que não estão trabalhos e equipamentos estão ruma situnção segura
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BUNKERING / FUEL OIL / LUBRICANT OIL / NITROGEN LOADING

• Yard must be notified in advance. Approval by Project Manager and authorization by Port Authorities must be obtained and appropriate safety measures could be initiated by yard safety officer on board



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BUNKERING / FUEL OIL / LUBRICANT OIL / NITROGEN LOADING

- A responsibility term must be signed beforehand by ship's responsible.
- No hot work in entire ship and yard surrounding vicinity area is allowed

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STOPPAGE OF THE WORK FORM

 Yard safety technician can, at any time and at his judgement stop any work witch he find is being performed with an unacceptable safety conditions/risk

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PPEs RECOMMENDED



- RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT TO BE ALWAYS USED
 - Hard hats helmets
 - Safety boots
 - Suits

MA/JC

- RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT TO BE USED WHERE REQUIRED BY RISK ASSESSMENT
 - Eye protection (recommended in many cases)
 - Safety gloves (type to be defined by the risk involved)
 - Ear protectors (the noise will be high in some areas)
 - Respiratory masks (dust, fumes, toxic vapours or gases may exist in the airborne)
 - Safety Harness (work more than 2 metres high)
 - Others in accordance with the risk/activity







SAFETY TRAINING



- All the subcontractor firms' employees and clients employees (if required) before starting any work on the Shipyard are trained and informed, by the Prevention and Safety Department, about the Lisnave Safety standards, rules and procedures.
- At least every year the subcontractors are refreshed.
- Annually in a professional school in Yard premises (Solisform) there are several courses such as; fire fighting, first aids, hygiene and safety, rigging/maneuvers, supervising and so on. Lisnave employees are trained in these courses.





SECURITY AND ENVIRONMENT

> <u>SECURITY</u>

- Lisnave is a certified yard by the ISPS code and has a PFSO certified by national authorities.
- ✓ All private and public vehicles and baggage will be subjected to security check at main gate during movement in/out the yard.
- ✓ Yard is subjected to close circuit TV (CCTV)

> <u>ENVIRONMENT</u>

- Lisnave has a Certified Environmental Department with an environmental manager.
- Adequate recipients will be placed providing separate disposal of garbage.
- ✓ Hazardous wastes should only be disposed in approved recipients.
- ✓ The removal of the garbage/hazardous wastes are carried out by certified companies following appropriate laws.









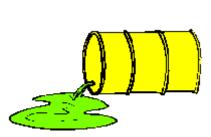
EMERGENCY ORGANIZATION

- The yard has an Internal Emergency Plan where is described the emergency procedures and measures to face:
- > SERIOUS ACCIDENT
- > FIRE/EXPLOSION





> SPILLAGES





EMERGENCY ORGANIZATION

- > Yard emergency team
 - In case of accident with high severity will be assumed by Emergency Director
 - In case of low severity accident will be assumed by the most graduated fireman usually one firemen supervisor
 - In any case the severity of the situation must than be evaluated by both ship and yard emergency responsible persons and coordinated measures accorded
 - In serious situations the external firemen and ambulances will be available
- > Assistants
 - Project managers/general yard managers
 - Safety technician/Chemists
 - Electricians
 - First aid trained workers
 - Crane operators











EXTERNAL EMERGENCY ENTITIES

- Hospital is in Setúbal city, about 12 km and 10 minutes away from the yard
- Ambulances and medical assistance from the National Medical Emergency Service (INEM in Portuguese) is also available in Setúbal
- The stations of fulltime Professional Fire Services and the Voluntary Fire Services are near Setúbal, about 10 minutes away from the yard.
- If required they will be called by the yard fire brigade or management





EMERGENCY - DRILL

