



Health, Safety & Environment (HSE)

by

Damen Schelde Naval Shipbuilding (DSNS)

Damen Shiprepair Vlissingen (DSV)

Safety, health and the wellbeing of our employees is paramount

Every day healthy home, is the aspiration for all of us

View this presentation attentively so you know what to look for if you are on our site

Thank you for your cooperation

DAMEN COVID-19 GUIDELINES



No handshakes or other physical contact



Keep 1.5 m distance from each other



Cough and sneeze in your elbow



Wash and disinfect your hands



COVID-19 symptoms, go home and get yourself tested!



Wear a face mask at all times when moving indoors and on board

For more information regarding the DAMEN COVID-19 regulations on our yard, please check our DAMEN COVID-19 Protocol, which will be available via your supervisor

Health/Safety risks:

- Working at height (risk of falling)
- Working in confined spaces (suffocation, explosion)
- Fire hazardous work (welding, flame cutting, grinding)
- Harmful noise (noise deafness)
- Loose cables and hoses, waste lying around (tripping hazard, hazard of get-away)
- Electrocution

Environmental risks:

- Leakage or spillage of products (oil, hazardous substances)
- Excessive consumption of raw materials and consumables
- Excessive energy consumption
- Noise nuisance
- Dust distribution (welding fume, dust wipe, paint- and blast dust)

Location Vlissingen Oost



In case of fire / emergency



Call: 0118 48 **31 11** (Vlissingen-Oost)
see also calamity card

Always state :

- Who you are
- What has happened
- Where it happened

LOCATION: VLISSINGEN-OOST

What to do in the event of an incident

- Phone **0118 48 31 11**
- State
 - Who you are
 - What the problem is
 - Where it is

In the event of fire

- Attempt to extinguish a starting fire with your own extinguishing agents
- Switch off your own equipment
- Close doors, windows and cupboards

In the event of an accident

- First of all, do what you can to save lives

Leaving the Building

- Remain calm
- Leave the building according to the instructions you have been given
- Do **not** use lifts
- Go to assembly point
- Follow the instructions you are given

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For questions on Health, Safety & Environment call the HSE-coordinator

Fire / Emergency / Evacuation

In case of fire state:

- Whether there are any victims
- The assistance required
- Details

Prevent expansion:

- Shut down machines
- Shut off gas supply

In case of an accident state:

- Number of victims
- Nature of the injuries
- Assistance required
- Measures taken

Stay with the victim!

In case of evacuation:

- Proceed to the Muster point



Follow instructions First Aid helpers (BHV)

First Aid Helpers (BHV):

First Aid Helpers can be recognized by their:

- BHV-sticker on helmet



Fire watch:

- Can be recognized by: red helmet
- Oversees fire safety and general safety on board



First Aid

The First Aid helper offers First Aid!

AED

For resuscitation in case of a cardiac arrest

Can be found at various locations in First Aid cupboards



- Extinguishers must be easily accessible at all times
- Report use of extinguishers to the Fire Watch
- Smoking is only allowed during the breaks and in designated areas
- Be aware of fire risk situations
- Don't leave flammable materials / waste lying around
- Check your work space for burning or smouldering objects before leaving



Near accidents and unsafe situations

- Stop working in case of eminent danger
- Try to solve unsafe situations yourself first in order to protect your colleagues from accidents
- Report all unsafe situations and near accidents to your supervisor

- Always carry valid ID
- Access by car is only permitted with a parking sticker
- Parking is permitted in parking spaces only and always at your own risk
- Maximum speed: 15/30 km/hour



- Your cooperation is required during security checks

- It is **absolutely prohibited** to use alcohol or drugs during work or to appear at work "under the influence"
- Violation of this rule will result in immediate suspension of your contract



- Report the use of medications that may influence the affect on the performance of your work, to your manager



Order and tidiness

Keep the workplace, even in between, clean and tidy

Make sure that at the end of the day the workplace is cleaned up



A job is only finished when the workplace is cleaned up

Clean ship / work place



Safe hoisting

- Operating an overhead crane? A valid hoisting certificate is **mandatory!**
- Ask your supervisor for a helm sticker
- When in doubt, stop the hoisting process!
- Do not lift anything over or around people
- Always use correct hoisting apparatus/tools
- Check hoisting apparatus/tools prior to starting
- Hand in damaged/out of order hoisting apparatus/tools at the (department)warehouse




- Check machine or vehicle in advance for safe use
- Read corresponding instruction card and comply to the guidelines

VEILIGHEIDSINSTRUCTIES / SAFETY INSTRUCTIONS
KOLOMBOOR / COLUMN DRILL

RISICO'S

- Werkstuk vliegt weg (slecht geklemd)
- Rondvliegende deeltjes (spanen)
- Draaiende delen
- Breken van boor
- Boorvel wegnemen met de hand
- Spattende koel- of snijolie
- Loshangend haar, kleding of sieraden




RISKS

- Work piece flies away (poorly plugged)
- Flying particles (chips)
- Rotating parts
- Breaking the drill
- Removing drill cuttings with the hand
- Splashing cooling or cutting oil
- Loose hair, clothing or jewelry

PREVENTIEMAATREGELEN

BEDIENER

- Draag veiligheidsbril
- Klem werkstuk indien mogelijk goed vast, houd niet met de hand vast
- Draag GEEN handschoenen
- Veeg boorvel weg met borstel
- Stel juiste boorsnelheid in
- Verstel NIET tijdens het draaien
- Laat NOOIT draaien met openstaande overbrenging
- Draag goed sluitende werkkleding
- Draag GEEN loshangend haar/sieraden



PREVENTION

OPERATOR

- Wear safety goggles
- Put work piece if possible, not hand-hold
- DO NOT wear gloves
- Wipe away debris with brush
- Set correct drill speed
- NOT adjust while running
- NEVER run with open transmission
- Wear tight-fitting clothing
- DO NOT wear loose hair/jewelry

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Author: A. van Slooij (Health & Safety coordinator)

- Outfit the work place so that it is safe (sufficient room around machines, accessibility of the premises, lighting, ventilation)
- Keep safety devices always intact, for your own safety!

Fork-lift truck

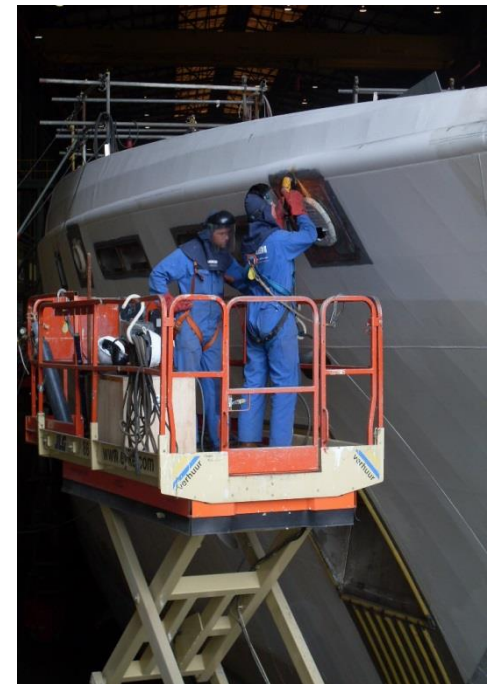
- When operating a fork-lift truck a valid certificate is required
- Ask your supervisor for a helm sticker
- Seat belts or use of safetygate are mandatory on open type.
- Report malfunctions or unsafe situations to



Cherry pickers, personnel carriers

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Always be sure to strap yourself in mobile working platforms
When operating a cherry picker a valid certificate is required
Ask your supervisor for a helm sticker



Work on, above or close to water

Are you working on the water, above water or close to the edge and without a railing you should protect yourself with a life jacket

These are available in the warehouse



Lifebuoys are located at the crane pedestalls and fixed locations ashore.

On pontoons portable lifebuoys are located



Tankers

- Tankers are normally non-gasfree
- Respect/follow the safety signs near the ship
 - Forbidden for cars/trucks/etc close to the ships
 - No smoking / use of mobile phones / welding / flamecutting / ...



Scaffolding

- **Never** make any changes to scaffolding yourself: this must be conducted by the scaffolder
- Only enter the scaffold if a signed scafftag is posted



Ladders and stairs

Keep both hands free when entering ladders and stairs.

Ensure 3 points of contact at all times



GOAL: reduce risk

- **Apply 1 Day** in advance from the fire watch / production coordinator
- Fire watch will check and complete it
- Fire watch and staff conducting the work both to sign the permit
- End of work:
 - Ensure that the work place is tidy
 - Sign out with fire watch

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WERKVERGUNNING

Project:		Datum aanvang:		Tijd:	
Dek nr.:		Datum einde:		Tijd:	
Ruimte:		<input type="checkbox"/> Dek <input type="checkbox"/> Wanden (O BB / O SB / O VS / O AS) <input type="checkbox"/> Plafond			
Ruimte nr.:					
Omschrijving werkzaamheden (zo duidelijk mogelijk)					
A. Soort werkzaamheden <input type="checkbox"/> Besloten ruimte <input type="checkbox"/> Heelwerk <input type="checkbox"/> Conservieren <input type="checkbox"/> Vloeren coaten <input type="checkbox"/> Brandstof bunkeren <input type="checkbox"/> Draaien <input type="checkbox"/> Zenden <input type="checkbox"/> Leidingen persen (> 8 bar) <input type="checkbox"/> Dieselen <input type="checkbox"/> Risicovolle IBS-werkzaamheden <input type="checkbox"/>		B. Genomen veiligheidsmaatregelen <input type="checkbox"/> Inspectie aangrenzende ruimtes (kubus) <input type="checkbox"/> Brandbaar materiaal verwijderd/afgedekt <input type="checkbox"/> Brandblusser aanwezig in de ruimte <input type="checkbox"/> Spanning uitgeschakeld <input type="checkbox"/> Mangatwacht aanwezig <input type="checkbox"/> Ruimte afgebakend <input type="checkbox"/> Ventilatie/afzuiging aanwezig <input type="checkbox"/> Waarschuwingborden geplaatst <input type="checkbox"/> Ruimte gemeten <input type="checkbox"/>		C. Benodigde PBM (buitenom standaard) <input type="checkbox"/> Gehoorbescherming <input type="checkbox"/> Handbescherming <input type="checkbox"/> Stofmasker (P2/P3) <input type="checkbox"/> Onafhankelijke adembescherming <input type="checkbox"/> Geluidsbescherming <input type="checkbox"/> Veiligheidsgordel <input type="checkbox"/> Persoonlijke gasdetector <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
Metresultaten voor besloten ruimten / heelwerk					
Datum	Tijd	Naam	Handtekening	Zuurstof (20-21 Vol. %)	Explosielevel (< 10% LEL)
Eventuele opmerkingen:					
Controle uitvoering veiligheidsmaatregelen					
<input type="checkbox"/> Brandveiligheidsricht Hierbij verklaar ik dat de genomen veiligheidsmaatregelen in voldoende mate zijn uitgevoerd			Aanvrager / Productiemeewerker(s) Hierbij verklaar ik de werkzaamheden conform de werkvergunning uit te voeren		
Datum	Naam	Handtekening	Firma	Naam/Namen	Handtekening
Werkvergunning bij einde van de werkzaamheden of aan het einde van de week inleveren bij de container (prievenbus). Aanvrager / Productiemeewerker: Hierbij verklaar ik dat de installatie en de locale in een schone en veilige conditie zijn achtergelaten.					
Datum:	Tijd:	Naam:	Handtekening:		

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Work permit

Mandatory for the following activities:

Assembly / completion ships:

- Working in a confined space
- Hot work (i.e. welding, flame cutting and grinding)
- Gritblasting / Preserving
- Installing floors
- Turning and transmitting
- Refuelling
- System pressing
- Fuelling / risky STW-activities
- X-raying

Section construction ships:

- Working in a confined space

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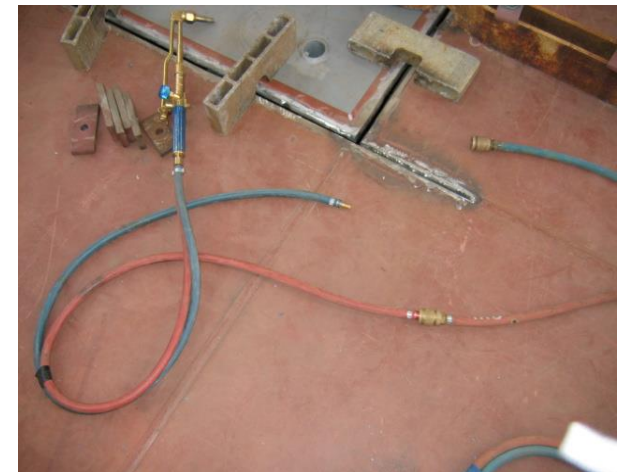
WERKVERGUNNING

Project:		Datum aanvang:		Tijd:
Dek nr.:		Datum einde:		Tijd:
Ruimte:		<input type="checkbox"/> Dek <input type="checkbox"/> Wanden (O BB / O SB / O VS / O AS) <input type="checkbox"/> Plafond		
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Metresultaten voor besloten ruimten / heetwerk				
Datum	Tijd	Naam	Handtekening	Zuurstof (20-21 Vol. %)
				Explosielevel (< 10% LEL)
				Gevaarlijke gasen (< MAC-waarde)
Eventuele opmerkingen:				
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Aanvrager / Productiemedewerker: Hierbij verklaar ik dat de installatie en de locatie in een schone en veilige conditie zijn achtergelaten.				
Datum:	Tijd:	Naam:	Handtekening:	

Rev. 5 Januari 2009

Gas & Oxygen

- Check in advance for:
 - Defects
 - Leaks
 - Correct annual colour code
 - Safety measures present
- **Never** leave burner and hoses behind in confined spaces
- Disconnect hot work devices during each break or intermission
- Only use oxygen to preserve the flame
- Do NOT use painted hoses
- Replace leaking hoses immediately



- On board of ships and sections under construction only 'safe' voltage (110 Volts equal) or 380 Volt is permitted
- 380 Volt: do not set up power supply in narrow conductive spaces
- 220 Volt: only on request (dispensation)
- Always make sure to correctly cover cables that are under tension
- Be careful with water
- Cable reels are prohibited on board
- Never turn anything on or off without asking



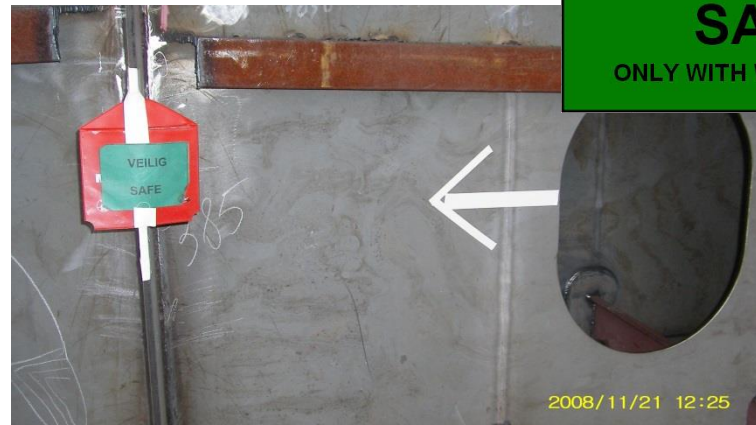
Hot work (welding, flame cutting, grinding)

- Follow the fire watch instructions
- Inspect the surroundings
- Cover flammable parts with a fire blanket
- Always keep a fire-extinguisher at hand
- Extraction is mandatory during welding activities
- After completion check the work place and surroundings for flammable situations
- Make sure the work place is tidy when leaving



Working in confined spaces

- Only enter with a **work permit** signed by the fire watch
- It is posted at the entrance of a confined space whether it has been measured:
 - Green means it has been measured and is safe to enter
 - Red means it has not been measured and should not be entered



Working with gaskets and insulation

- Existing gaskets and insulation material can contain asbestos
- The workplace must therefore be examined for the presence of asbestos
- DSV uses labels for this:
 - Blue = material is under investigation
 - Red = material contains asbestos
 - Green = material is asbestos free
- You may only work on components labeled green



Paint processing / Preservation

- Work permit **always** mandatory
- Only bring daily supply to work place
- Dust must be vacuumed and not blown away
- Ventilate/extract as long as fumes are released
- After the work is done tidy everything up
- Store paint in a container



Sorted waste disposal

- Sort waste as much as possible
- There are containers available for the following types of waste:
Confidential paper, Plastics, Isolation, Oily waste, Aerosol cans, Paint cans

Steel/Scrap



Wood



Residual waste



Paper/cardboard



Hazardous materials

- Store directly after use in designated areas
- Never bring more hazardous material on board than needed **for 1 day**
- Collect hazardous materials waste separately, ask your supervisor for details



Covering holes and openings

Properly cover floor holes and openings



Personal Protective Equipment (PPE)



Helmet and safety glasses are **mandatory**:
In areas marked with a pictogram

Helmet Color	Who is meant	Addition markings for specific roles/ functions	
	Workers	EHBO white cross green background (size 4x4 cm)	
	Safety Officer + HSEQ Coordinator, + Fire- / manhole Watch	Riggers Red Striping	
	Foreman		
	Office personnel + Engineers + Project Managers		
	Visitors External		
	QC inspectors		

Personal Protective Equipment (PPE)



Work clothes that fully cover the body are mandatory



Safety shoes are mandatory in all production locations



Personal Protective Equipment (PPE)



Hearing protection is mandatory in noise.
Rule of thumb: speak with raised voice to be audible = noise



In connection with possible power failure a properly working flashlight is mandatory on board

Production Job Equipment

Grinder



Grinding shield

Fresh air welding hood

P2 Respirator

Balaclava

Leather welding sleeves

Palm work gloves

Leather handgloves

Leather welding coat

Gouging



Production Job Equipment

Plater



Welding shield

Burning shield

P2 Respirator

Balaklava

Leather welding sleeves

Leather handgloves

Burner



Production Job Equipment

Welder fresh air



Grinder fresh air



Fresh air grinding shield

Fresh air welding hood

Balaclava

Leather welding sleeves

Leather hand gloves

Palm work gloves

- Safety awareness:
 - Speak to each other about unsafe behaviour
 - Take responsibility for your own safety and for your colleagues
 - Be proactive and ask questions:
 - What dangers could happen to me in my work
 - What preventive measures shall I take
- These instructions do NOT replace the HSE-regulations
- These instructions are merely supportive
- For questions and ambiguities check the HSE-regulations or ask your supervisor to explain

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