



DON'T GET CAUGHT IN
THE LINE

OF FIRE

**KNOW YOUR WORKPLACE
- PREVENT ACCIDENTS!**

INFORM
*onscreen group
presentation*

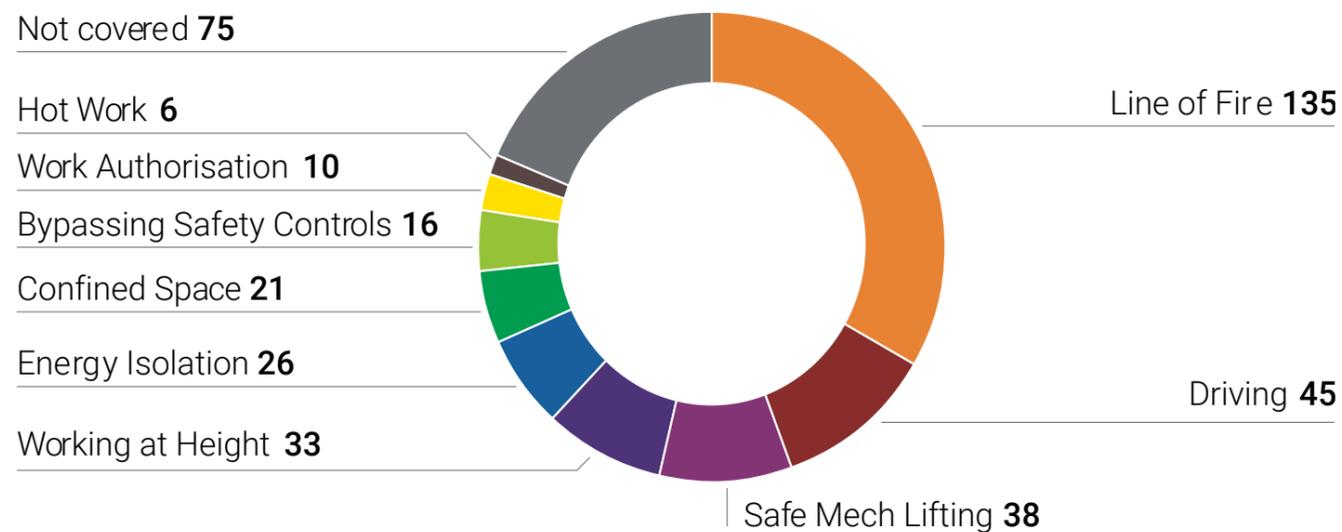
**for explanation
and discussion**

HSELIFE NL 
Management System for a safer and healthier workplace

to be used for
INFORM
CAMPAIGN
kick-off session

Why this campaign?

Hazards 'in the line of fire' are one of the most common in the oil and gas industry.*



(Fatalities reported to IOGP 2008-2017, excluding Aviation, Process Safety and Security fatal events, and fatal events with insufficient information to analyse)

In the line of fire means that you are in a danger zone. In that danger zone, there may be situations where you can be injured by something moving unexpectedly, releasing hazardous energy, or releasing hazardous substances.

*Data reported by the International Association of Oil & Gas Producers (IOGP) for the period 2008-2017, published 8/2018 (Report 459).



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Why this campaign?

In other words, these are hazards where there is a risk that you will be hit, trapped, crushed or where you will come into contact with hazardous substances. Examples include working in the vicinity of rotating machines or working with well equipment.

The campaign is meant to make you aware of the hazards that can occur in that danger zone, to learn to recognize them and to help each other stay out of the line of fire.



Don't get caught in THE LINE OF FIRE

Introduction

The campaign 'don't get caught in the line of fire' focuses on the prevention of incidents related to hazards in the line of fire. But also to maintain good working practices and to reduce unsafe actions and unsafe conditions. This onscreen presentation is intended for group discussion.

We are providing an opportunity for those working on the frontline to raise concerns in an open and transparent way, to raise problems and dilemmas and to address issues.

This ultimately contributes to safe working practices, your own safety and the safety of others.



Don't get caught in THE LINE OF FIRE

Introduction

We first focus on:

- **the most important situations for hazards 'in the line of fire'.**
- **hazards**
- **incidents**
- **personal behaviour that can lead to hazards**



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Eight risk areas

We then discuss eight risk areas of 'in the line of fire'. Each risk area includes questions that **you need to ask yourself** in order to identify potential hazards and prevent incidents.

We want you to use the eight risk areas to determine whether there is room for improvement in the work environment. We also want to discuss whether decisions and what decisions made by managers, relating to safety, can lead to unsafe situations. Use the **handout** to write down your suggestions and tips.

**By working well together with your colleagues and manager you can prevent incidents.
Teamwork is essential!**



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The most important situations for hazards 'in the line of fire.'

- **Heavy equipment**
- **Machinery**
- **Hand tools and power tools**
- **Material handling**
- **Mobile equipment**
- **Excavation work**
- **Moving vehicles**



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Examples of hazards 'in the line of fire'

- Working near machines with moving parts
- Recoil of electric hand tools when jammed or sticking
- Torque wrenches or other wrenches used to apply force
- Tensioned chains or hoisting belts
- Loads or equipment liable to fall or tilt when protective devices are loosened
- Fluids (hydraulic, air, water) that are under pressure
- Use of a hammer of which the head can shoot off



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Examples of hazards 'in the line of fire'

- Working at height with tools that can fall on someone working/walking underneath
- Underground and overhead power lines
- Objects under pressure
- Stored energy
- Pipes under tension
- Poorly supported excavations
- Sliding cargo
- Moving equipment
- Hoisting of loads, especially when receiving loads and handling rigging



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Examples of hazards 'in the line of fire'

- Working with hand tools
- Welding and grinding operations or if you're near these operations
- Working on a task where bottlenecks arise
- Use of pipeline inspection gauges
- Sudden release of power
- Flying debris and projectiles
- Opening and closing of energy control facilities



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Examples of incidents 'in the line of fire'

- **Employee run over by a truck and fatally injured**
- **Unintentional expansion of pneumatic plug**
- **Forklift truck drives over barrier and injures driver**
- **Atomization of bitumen if flange joints are not properly secured**
- **Worker died when wall collapsed during demolition**
- **Sailor was crushed between standby vessel and daughter vessel**



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Personal behaviour that can lead to hazards

- **Hurry:** you are in a hurry to complete a task
- **Frustration:** you are angry, irritated or annoyed
- **Fatigue:** you're tired
- **Self-satisfaction:** you have completed a task many times and have never been hurt



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Risk area

1 Movement

- What's moving?
- Can anything start to move?
- Are people moving on site?
- Are there vehicles?
- Can someone get trapped or crushed?
- Where are bottlenecks?



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Risk area

2 Fire and Explosion

- Where are flammable materials nearby?
- Where are the ignition sources?
- Are you sure that any hydrocarbons are properly sealed?



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Risk area

3 Height

- Who works above you?
- Who's working down below?
- Are there any objects above you that can fall?
- Are you using the right fall protection?
- Do you have to climb when working?



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Risk area

4 Toxic substances

- What is the toxicity of the chemicals in your environment?
- Can the work you do change the air around you?
- Can your work space be considered a confined space?



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Risk area

5 Pressure

- Where are the pressure sources?
- What causes pressure to be released?
- Have you checked the process insulations?
- Can your work cause pressure?



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Risk area

6 Thermal

- What are the hot/cold surfaces or products in your work environment?
- Does your work create heat or cold?
- How can a hot or cold environment affect your team?



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Risk area

7 Electricity

- Where are the electricity sources?
- Are there some electricity sources hidden?
- How can you reach electricity sources?
- Has the insulation been established?
- Is formation of static electricity possible?
- Are there any overhead power lines?



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Risk area

8 Humans

- Can everyone explain their role?
- Are the communication channels clear?
- Are there any personal problems within the team?
- Does the team have the right competencies?