

# International Conference Vision Zero in Construction

Moscow 11.09.2019

**VISION ZER** 

“Innovations through Vision Zero”

Prof. Karl-Heinz Noetel

# Facts !

## Facts

374 million  
accidents at work

160 million  
occupational diseases

worldwide every year

# Facts

**2.78 million** deaths  
caused by accidents at work or  
work-related health conditions  
**every year**

# Facts

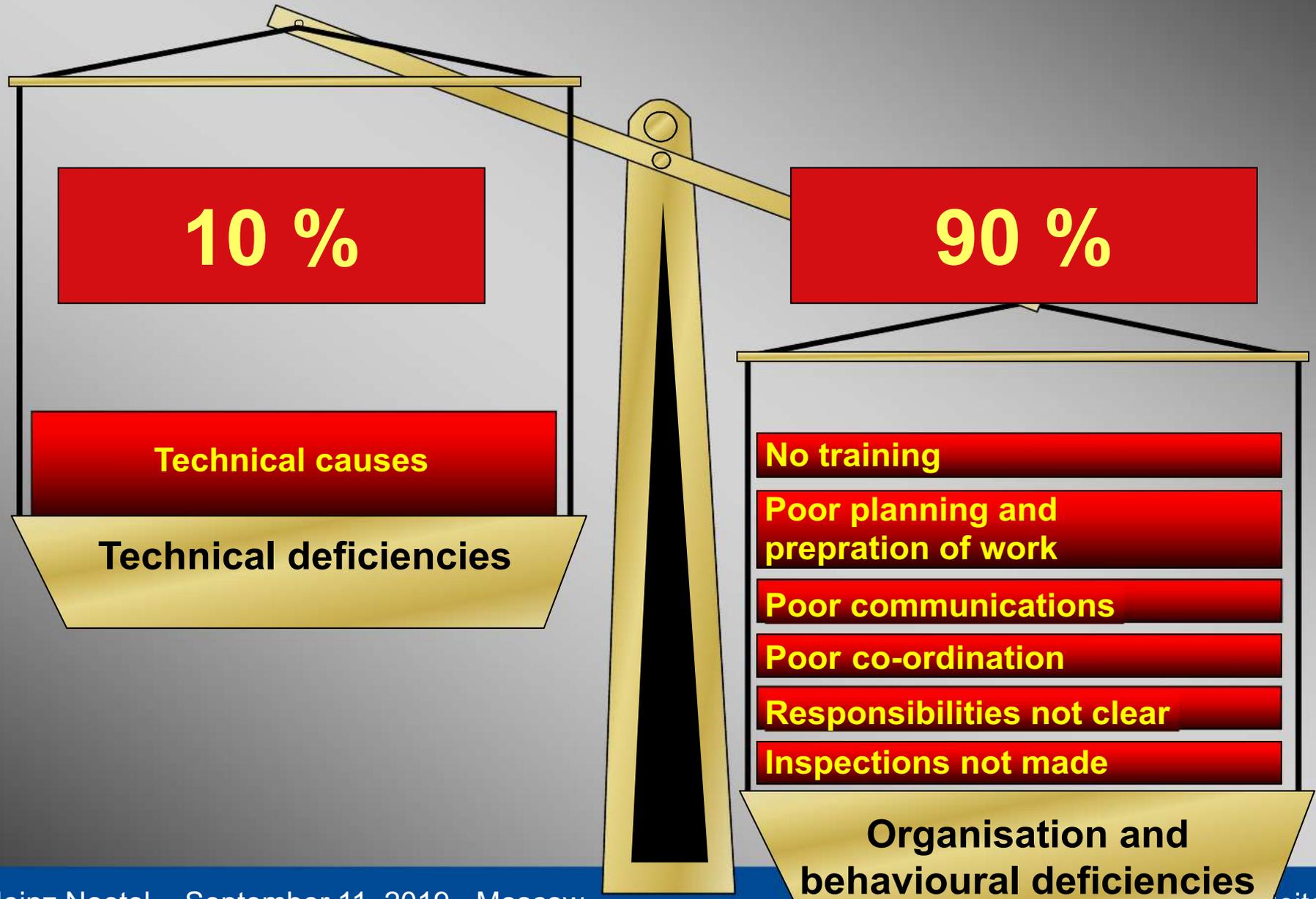
Every  
**14 seconds**  
someone dies due to work conditions

# Facts

Annually  
2.4 trillion US-Dollar  
(4.0%)  
economic loss  
worldwide

# What are the general causes ?

# Causes for Accidents



# Main accident causes in Construction:

- **Slip, trip and falls**
- **Ladders**
- **Falling Objects**
- **Electricity**
- **Hazardous substances**

## *EUROPE*

**Fatal injuries due to falls: 22,5% of all fatal injuries**

**In construction 34,% of all fatal injuries**

**40% of all fatal injuries due falls in companies  $\leq$  10 employees**

## *GERMANY*

**Fatal injuries due to falls: 30% of all fatal injuries**

**In construction 47% of all fatal injuries**

## *South KOREA*

**Fatal injuries due to falls:  
15,8% of all fatal injuries**

**In construction 52,7%  
of all fatal injuries**

## *RUSSIA*

**Fatal injuries due to falls:  
17% of all fatal injuries**

**In industrial region 32,3%  
of all fatal injuries**

# Fact: Fatal injuries due to fall app. 20% of all fatal injuries

Annually

0.25 trillion US-Dollar

(0.5%)

economic loss

worldwide

**Do you know when fall protection starts?**

***Thou shalt prevent falls from a height !***

**“When thou buildest a new house, then thou shalt make a battlement for thy roof, that thou bring not blood upon thine house, if any man fall from thence.”**

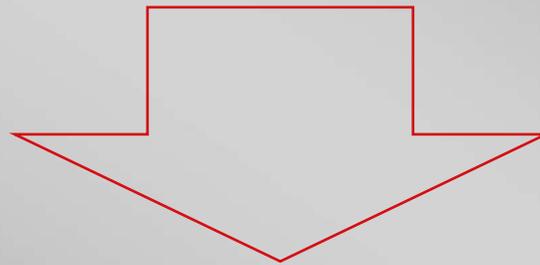
**(5<sup>th</sup> Book of Moses, 22.8)**

**Why do we tend to repeat some of our mistakes from the past or make similar ones?**

- **Time pressure**
- **Cost pressure**
- **No safety culture**

**Are we using the right methods to  
change the situation?**

The fatality rate in construction is enormously higher than in other industries



**We need a strategy!**

## Strategy

The logo for 'VISION ZERO' is displayed in a white rectangular box. The word 'VISION' is in a bold, black, sans-serif font, while 'ZERO' is in a bold, blue, sans-serif font. A white diagonal line cuts across the text from the bottom left to the top right, creating a sense of movement or a break in the text.

... is a prevention strategy for a safe future without fatal or serious occupational diseases and work accidents.

**VISION ZERO.**

**Illusion?  
or  
Mission possible?**

# VISION ZERO.

## 7 Golden Rules

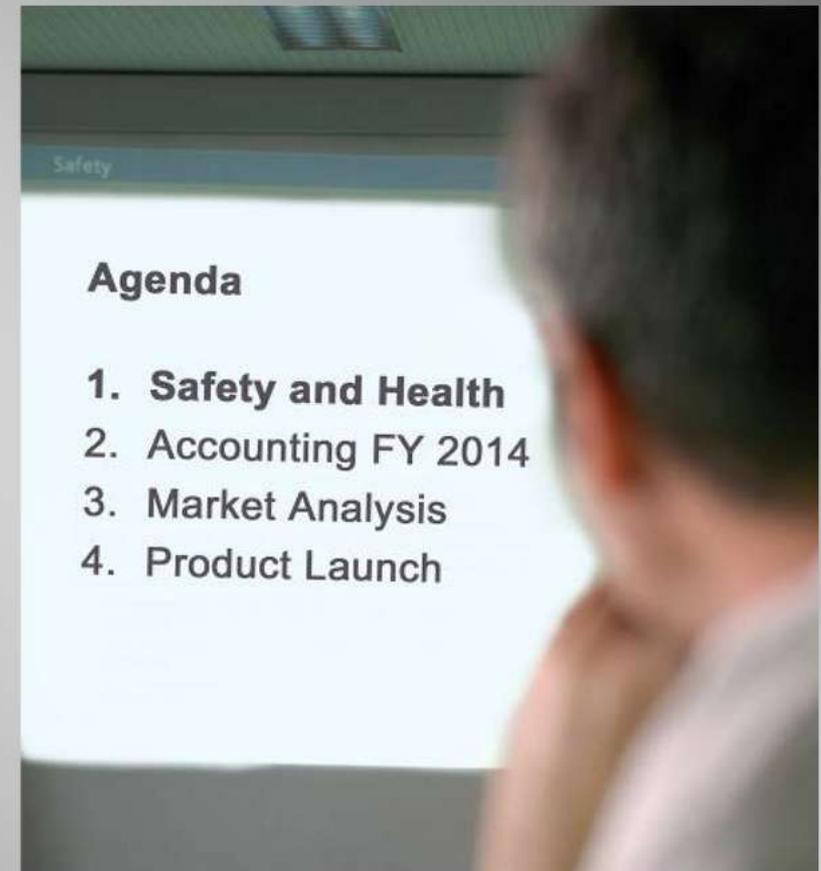
# 1. Take leadership commitment

## Simple but efficient

Safety is always the 1. item on every agenda

Set an example in respect to OSH

Instantly react to unsafe conditions and behaviour



## 2. Identify hazards and risks

Systematic risk assessment

Include maintenance and repairs

Evaluate work accidents,  
diseases and near misses

### **Mayor accident causes**

Slip, trip and falls

Ladders

Falling objects

Electricity

Hazardous substances

### 3. Set targets for safety



Define your own OSH-targets

Evaluate progress – adapt if necessary

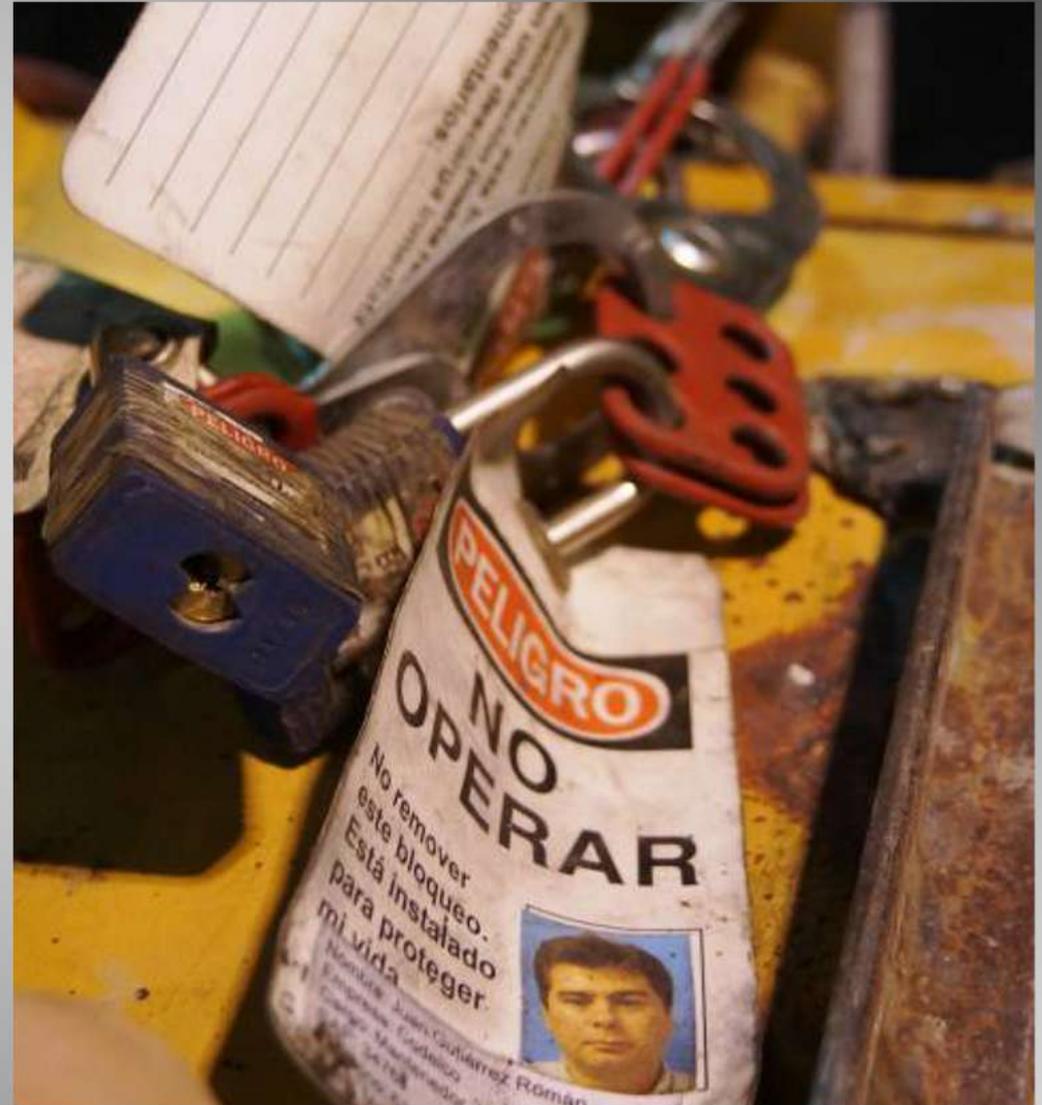
Design prevention campaigns

## 4. Ensure a safe system

Make all of your managers responsible

Implement a safety management system

Encouraging owner/client involvement



## 5. Use safe & healthy technology



Consider OSH when ordering new machinery or plant

Use all machines in a safe way and regularly check safety installations

Care for safe access and egress

## 6. Improve qualification

Competence needs education

Define the required qualification for each workplace

Set up a plan for training and instruction



## 7. Invest in people



Involve your employees!

Use your employee's ideas for safety

Acknowledge good safety performance

Develop confidence and a culture of prevention

**VISION ZERO.**

**Success!**

**Promotion of occupational health and safety**

**via**

**Lifelong Learning Concept**

## A holistic approach



This holistic approach, designed to improve occupational health and safety by addressing all the family was first implemented in a project entitled *"Lifelong Learning' - promotion of occupational health and safety in small and medium-sized enterprises"*, which was conducted in the framework of the SAFE programme and as such funded by the European Commission.

# Children playing with game



# Different types of games



**Colouring & Activity book**



**Puzzle**



**Twist-table clock game**



**Cards**



**Board game**

## Results of the European project

Project carried out in kindergartens in 7 European countries

Evaluation of results on the basis of interviews with children and educators

confirmation of the usefulness of the concept:

- improved risk awareness
- increased knowledge about protective measures
- support safe behaviour
- transfer of safety awareness into families



## Approach

Identification of the most common 'sore points' concerning safety and health in the construction industry

Drawings of bad examples next to good ones

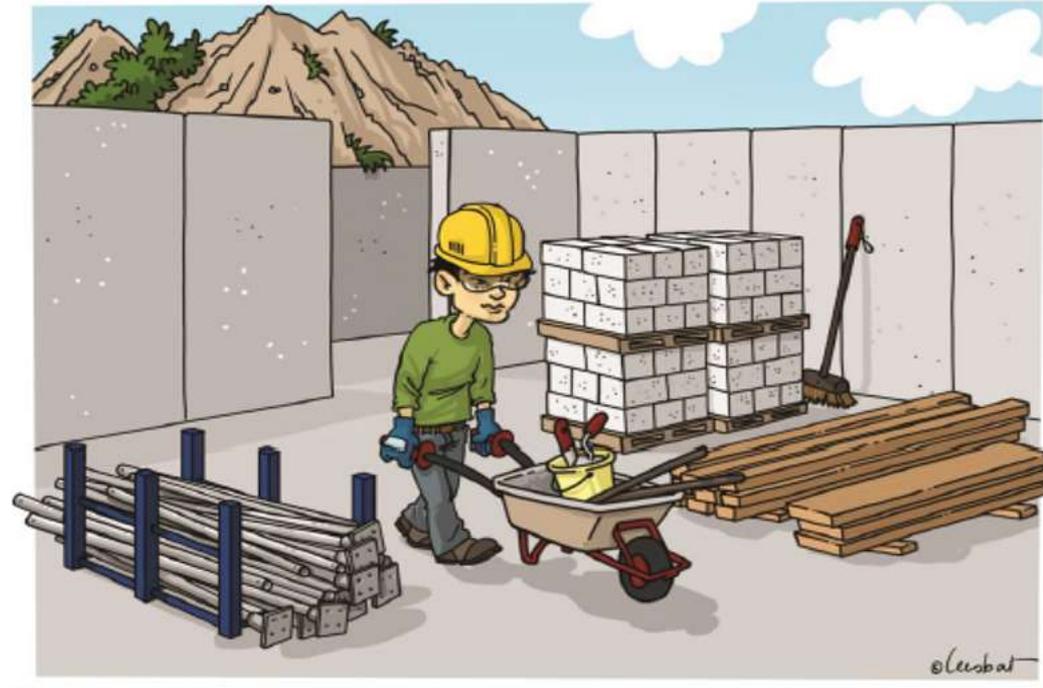
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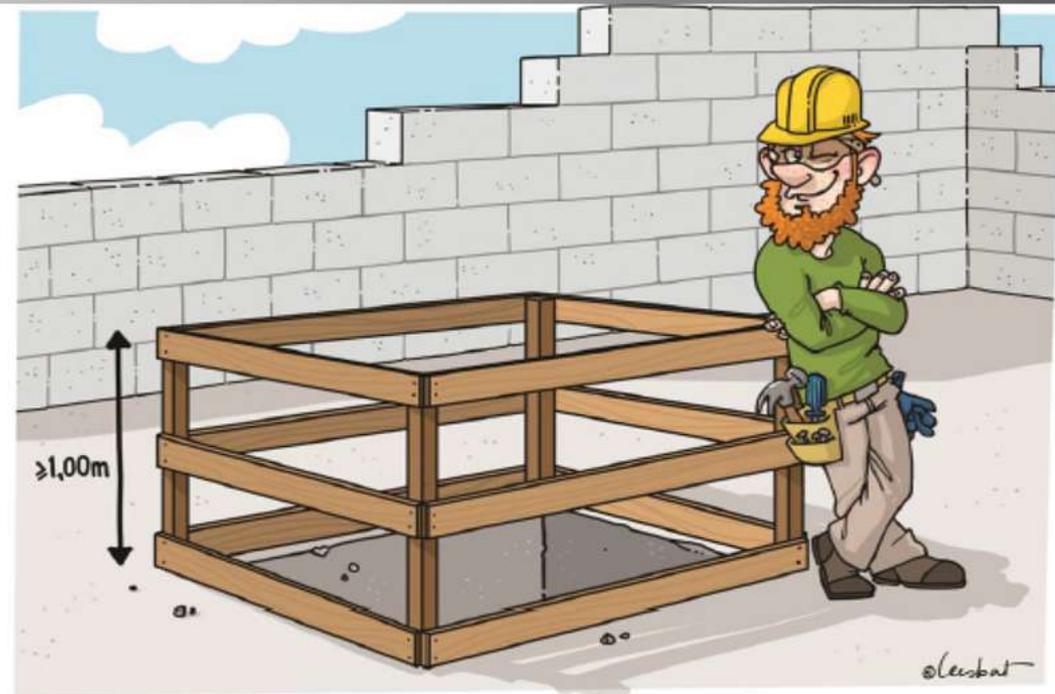
Can be used worldwide

Available for free via websites ISSA-C and ILO

# Structure: 43 scenarios

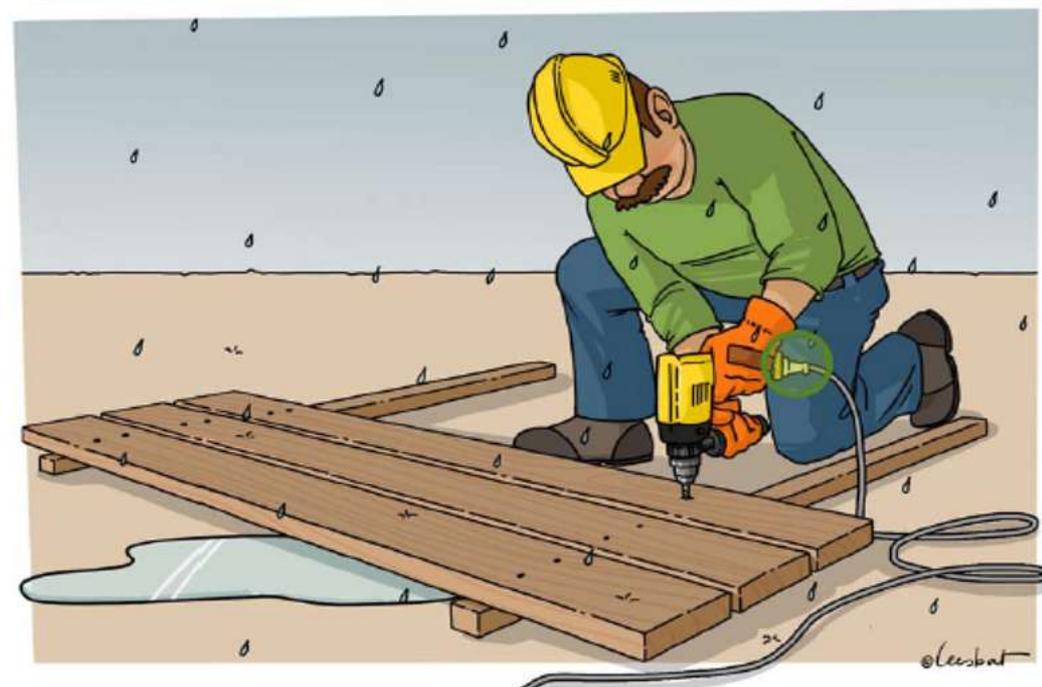
	<b>General duties of stakeholders</b>	<b>5</b>
	<b>Safety of workplaces</b>	<b>11</b>
	<b>Scaffolds and ladders</b>	<b>19</b>
	<b>Lifting equipment and accessories</b>	<b>25</b>
	<b>Earth-moving &amp; road-works equipment</b>	<b>33</b>
	<b>Work at height</b>	<b>41</b>
	<b>Excavations and underground works</b>	<b>47</b>
	<b>Concrete-related works</b>	<b>51</b>
	<b>Electricity</b>	<b>57</b>
	<b>Health</b>	<b>63</b>
	<b>Personal protective equipment</b>	<b>69</b>
	<b>Information and training</b>	<b>79</b>















[http://www.ilo.org/safework/info/publications/WCMS\\_383797/lang--en/index.htm](http://www.ilo.org/safework/info/publications/WCMS_383797/lang--en/index.htm)



# Kick off ! ?



**contact:**

Prof. D.-I. **Karl-Heinz Noetel**

phone: +49 1722891556

email: [Karl-Heinz.Noetel@bgbau.de](mailto:Karl-Heinz.Noetel@bgbau.de)