

DBEST Integrated Facility Management

Introduction to risk management in occupational safety Determination and management of dangers and burdens

Beijing, July 2014

Risk management in occupational safety



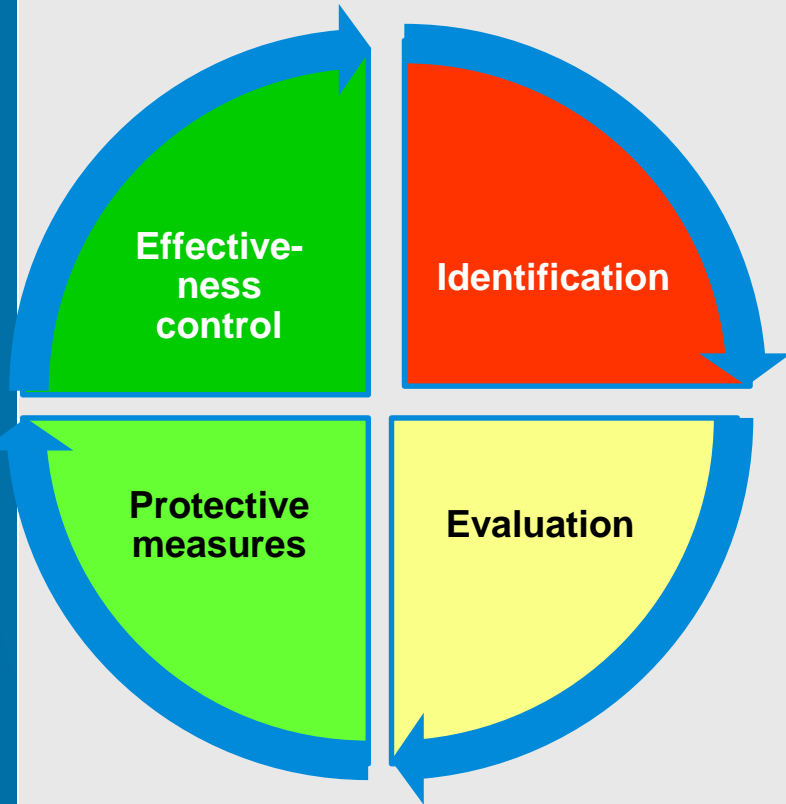
The key process in occupational safety is the management of risks in the workplace.

It is thus the basis for safe working!

Pursuant to internationally recognized standards, this process consists of a sequence of four steps, all closely linked and with a logical structural relationship.

As a result, complex tasks can be conducted safely and risks can be effectively managed.

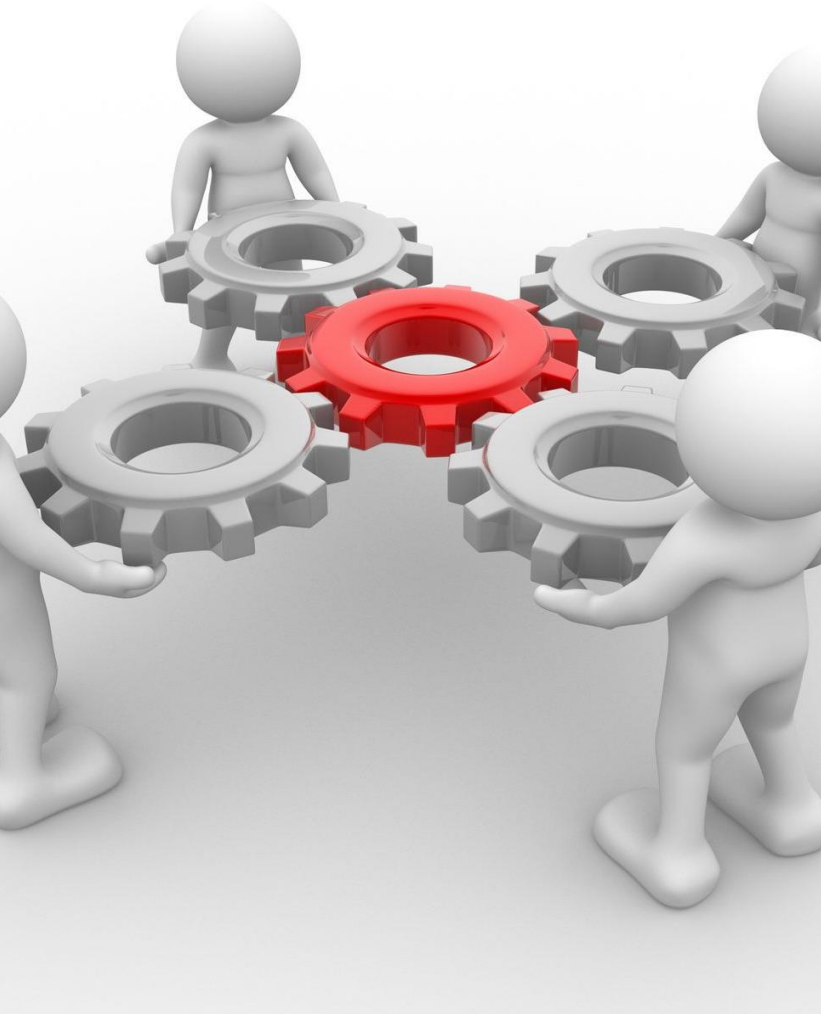
Risk management in occupational safety



All of the steps together, the process consists of:

- Identification of dangers and burdens which could arise in the course of executing the work.
- Determination and evaluation of the resulting risk
- Taking protective measures to reduce the risk
- Reviewing the effectiveness of the measures and evaluation of the reduced risk

Risk management in occupational safety



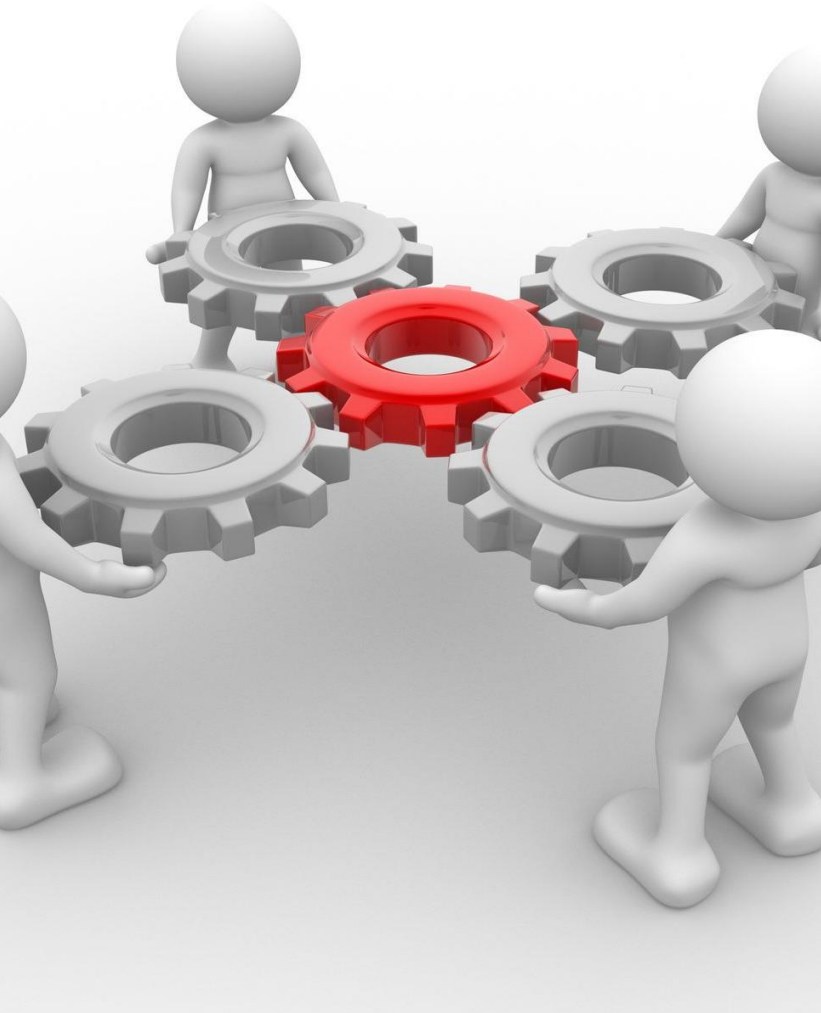
In order to manage the risk as well as possible, it is necessary to carry out all four steps.

To do this, one must shift from a general consideration of the task to a more a more precise consideration of the respective work processes that are to be carried out.

One's own tasks and requirements are included first and later also the requirements of third parties such as clients and subcontractors.

At the end, the close proximity of the workplace is taken into consideration and influences from the outside are included.

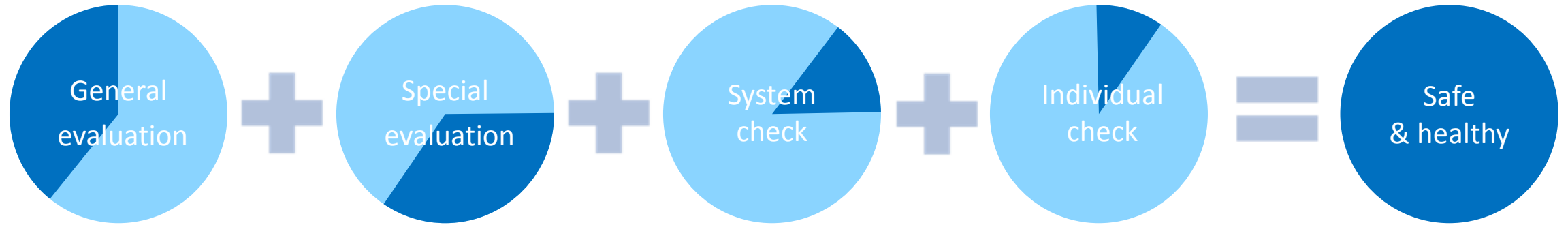
Risk management in occupational safety



Different groups of people are involved in the process at different periods of time and each of these groups brings with it a range of expertise and each considers the task from different sides.

Risk management is a true team task in which managers, health and safety specialists and employees work together hand in hand.

Interaction - methods and tools



Recurring tasks

-

Workplace independent

Recurring tasks

-

for a specific workplace

Specific tasks

-

Considering the environment and client-specific requirements

Plausibility check

-

Directly on-site incl. effectiveness control by persons who carried out the work

Safe & healthy

Result

among other things, risk analyses, MS manual, HSE plan

among other things project safety plan, HAZOPs, work and installation instructions, method statements

among other things approvals, permits measurement results completed checklists,

among other things LMRAs, brief safety interviews

Our objective:

ZERO HARM

Risk management in occupational safety



There are a range of methods and tools for each step.

Which of them is used always depends on the situation of the respective work and can also be adjusted and varied from company to company.

It is important that the objective of the relevant step is achieved.

Step 1 in the toolbox:

General evaluation - recurring tasks regardless of workplace



First step:

General evaluation recurring tasks

Basis:

General description of the task

Consideration:

Recurring tasks in a company, at a location, in a project or at a construction site independent of a specific workplace

Time point:

Independent of actual time point of the execution, but prior to the beginning of work

Evaluation basis:

Generally recognized regulations and standards

Person carrying out the task:

Manager, specialists for occupational health and safety

Results:

e.g. general risk analyses, MS manual, process descriptions, HSE plans, inspection and audit protocols



Step 1 in the toolbox: Special evaluation - recurring tasks for a specific workplace



Second step:

Special evaluation recurring tasks

Basis:

Determination / results from the first step such as general risk analyses, MS manual, process descriptions, HSE plans, inspection and audit protocols plus description of the specific workplace

Consideration:

Recurring tasks in a company, at a location, in a project or at construction site at a specific workplace

Time point:

Just before execution of the work

Evaluation basis:

Generally recognized regulations and standards

Person carrying out the task:

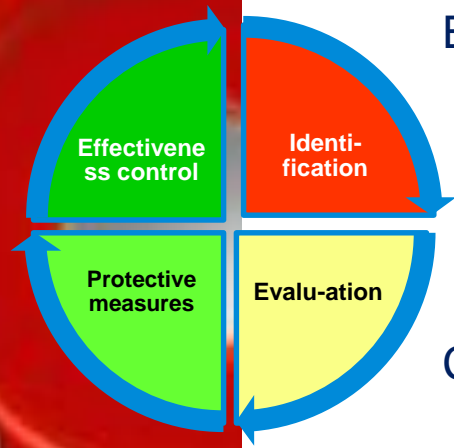
Specialists for occupational health and safety, managers, employees

Results:

e.g. project safety plan, work and installation instructions, method statements

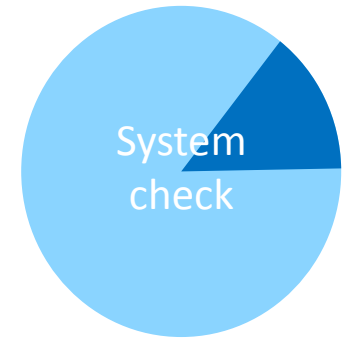


Step 3 in the toolbox: System check - specific task under consideration of the environment and client-specific requirements



Third step: System check

- Basis:** Determination / from the second step such as such as project safety plan, work and installation instructions, method statements plus description of the specific environment and requirements of the client
- Consideration:** Specific task considering the environment and client-specific requirements
- Evaluation basis:** Operational systems (also that of the client), special regulations and standards
- Person carrying out the task:** Managers and employees
- Time point:** On site, just before execution of the work
- Results:** e.g. approvals, permits, measurement results, completed checklists



Step 4 in the toolbox:

Plausibility check – directly on site incl. effectiveness control
by the person carrying out the task



Fourth step: Plausibility check

Basis:	Determination / results of the third step such as approvals, permits, measurement results, completed checklists plus findings of the employees
Consideration:	Specific task considering the environment and client-specific Requirements
Evaluation basis:	Operational method of the Last Minute Risk Assessment Person carrying out the task: Employees
Time point:	Directly prior to execution of the work, in case of change to the temporary workplace or the environment
Results:	Knowledge that the work can be safely completed, documented if necessary

