Successful Prevention for SMEs in the Mining-Industry

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Some Facts

Prevention 2000plus

The Employers-Model
Seminars - Trainings - Models
Campaigns for better Awareness
The StBG-Safety Award
Systematic Safety – the StBG Safety Seal

Outlook – The 3 Column Strategy
member branches

- Aggregates and Quarries
- Cement
- Concrete
- Asphalt Mixing Plants
- Gravel and Sand
- Lime and Gypsum
- Concrete Blocks
- Recycling
- Natural Oil and Gas
<table>
<thead>
<tr>
<th>Count</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.738</td>
<td>companies</td>
</tr>
<tr>
<td>10.707</td>
<td>subsidiaries</td>
</tr>
<tr>
<td>152.779</td>
<td>employees</td>
</tr>
</tbody>
</table>
86% of the member companies occupy less than 50 employees!
### accidents at work and occupational diseases 1995 - 2003

<table>
<thead>
<tr>
<th>Category</th>
<th>1995</th>
<th>1995 %</th>
<th>2003</th>
<th>2003 %</th>
</tr>
</thead>
<tbody>
<tr>
<td>companies</td>
<td>6467</td>
<td>-11.27%</td>
<td>5738</td>
<td></td>
</tr>
<tr>
<td>employees</td>
<td>220929</td>
<td>-30.85%</td>
<td>152779</td>
<td></td>
</tr>
<tr>
<td>accidents at work in total</td>
<td>28431</td>
<td>-46.79%</td>
<td>15128</td>
<td></td>
</tr>
<tr>
<td>notifiable accidents at work</td>
<td>17735</td>
<td>-60.07%</td>
<td>7081</td>
<td></td>
</tr>
<tr>
<td>new accident pensions</td>
<td>525</td>
<td>-52.19%</td>
<td>251</td>
<td></td>
</tr>
<tr>
<td>fatal accidents</td>
<td>29</td>
<td>-20.69%</td>
<td>23</td>
<td></td>
</tr>
<tr>
<td>notifiable accidents at work per 1000 employees</td>
<td>8737</td>
<td>-41.74%</td>
<td>5090</td>
<td></td>
</tr>
<tr>
<td>suspected occupational diseases</td>
<td>1118</td>
<td>-59.66%</td>
<td>451</td>
<td></td>
</tr>
<tr>
<td>occup. dis.: new pensions</td>
<td>122</td>
<td>-27.05%</td>
<td>89</td>
<td></td>
</tr>
</tbody>
</table>
in the mining-industry

every 10th employee

is involved in a

notifiable accident
expenses of the StBG in 2002

Total: 190 million €

- Capital expenses: 14%
- Administrative and legal costs: 10%
- Prevention: 9%
- Medical and social rehabilitation / compensation: 68%
our legal task
Social law code VII (SGB VII)

Responsibility of accident insurance

1. To do everything possible to prevent
   - Accidents at work
   - Occupational diseases
   - Occupational health hazards

2. To do everything possible to
   - Restore the health of sufferers
   - or provide financial compensation

(§ 1 "Prevention, rehabilitation, compensation")
our principle:

service and consulting
before
supervision and penalty
employer’s model
taking over responsibility
choice between two models of care

- employer
  - <30 employees

Choice

- statutory care by safety experts and company physicians
- alternative care
  - employer's model
the elements

employer's model

- regular training courses (employer's seminars)
- advice by safety engineers
- care and medical check-ups by company physicians
## training and motivation courses

<table>
<thead>
<tr>
<th>part 1 (2 days)</th>
<th>part 2 (2 days)</th>
</tr>
</thead>
<tbody>
<tr>
<td>- employer's responsibility</td>
<td>- branch-specific health problems (noise/dust/ergonomics/spinal column)</td>
</tr>
<tr>
<td>- basics of safety at work</td>
<td>- leading and instructing</td>
</tr>
<tr>
<td>- economy of safety at work</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>part 3 (2 days)</th>
<th>part 4 (2 days)</th>
</tr>
</thead>
<tbody>
<tr>
<td>- branch-specific safety problems</td>
<td>- dangerous agents</td>
</tr>
<tr>
<td>- transport, maintenance</td>
<td>- safety programs</td>
</tr>
<tr>
<td>- risk management / safety-checks</td>
<td>- strategies for realization</td>
</tr>
<tr>
<td></td>
<td>- advisory care of StBG</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>regular further training (2 days)</th>
</tr>
</thead>
<tbody>
<tr>
<td>- repetition and consolidation</td>
</tr>
<tr>
<td>- new Knowledge</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>- exchange of experiences</td>
</tr>
</tbody>
</table>
the team
the team

46 inspectors
8 safety-engineers
7 company physicians
2 course instructors
1 psychologist
2 media experts
1 gauging engineer
29 administrators of the preventative occupational medicine
the team

District I
Nürnberg

1 Chief-Inspector
5 Inspectors
1 Safety-Engineer
1 Company-physician
Since 1995 the risk to be involved in an accident receded more than 36 % for employees in the Employers Modell
Seminars
Trainings
Models
lifelong learning
per Year:
6000 participants
in 300 courses
the mobile exposition „hearing“
the conveyor-belt model
the slip, trip and fall parcour
the securing cargo circuit
Campaigns for better Awareness
safety live
prevention package „safety at conveyor belts“
prevention package „safety at conveyor belts“
new accident pensions caused by conveyor belts
campaign for better awareness: slip and fall accidents
campaign für better awareness: slip and fall accidents

the newspaper
campaign for better awareness: slip and fall accidents

sweepstake
the elements
newspaper
posters
stickers
sweepstakes
information - box
campaign for better awareness: slip and fall accidents

the events
The new accident pensions caused by slip, trip and fall accidents decreased from 181 in 1996 for 42.5% to 104 in 2003.
campaign for better awareness: eye safety
campaign to improve awareness: eye safety
campaign to improve awareness: eye safety

More than 23,000 eye injuries from 1998 to 2002

18% of these accidents are notifiable

Eye injuries are on the second place of the list of accidents

50% of the accidents are caused by handling tools or other utilities

A non-measured part of accidents at work is caused by short-sightedness or other eye related causes.
campaign to improve awareness: eye safety

info-papers
Campaign for better awareness: eye safety

the media-pool
campaign for better awareness: eye safety

- eye protection mobile
campaign to improve awareness: eye safety

campaign opening
campaign to improve awareness: eye safety

176 visits in Member-Companies

Ca. 9,500 visitors

90% of the visitors are taking advantage of the visual test
Elements of Prevention 2000

Award
Work
Safety
Health

a worldwide market place for ideas
- Collect good solutions
- Produce initiatives and realize good ideas
- Make good ideas available for the whole industry
- Promote the idea of a safe and healthy working environment
<table>
<thead>
<tr>
<th>Year</th>
<th>Ideas</th>
<th>Participants</th>
</tr>
</thead>
<tbody>
<tr>
<td>1997</td>
<td>125</td>
<td>230</td>
</tr>
<tr>
<td>1998</td>
<td>196</td>
<td>420</td>
</tr>
<tr>
<td>1999</td>
<td>145</td>
<td>300</td>
</tr>
<tr>
<td>2000</td>
<td>186</td>
<td>458</td>
</tr>
<tr>
<td>2001</td>
<td>156</td>
<td>387</td>
</tr>
<tr>
<td>2002</td>
<td>174</td>
<td>375</td>
</tr>
<tr>
<td>2003</td>
<td>158</td>
<td>403</td>
</tr>
<tr>
<td><strong>In total</strong></td>
<td><strong>1,140</strong></td>
<td><strong>2,573</strong></td>
</tr>
</tbody>
</table>
Elements of Prevention

Systematic Safety
Systematic Safety
accident causes

- 10% technical deficiencies
- 90% deficiencies in organisation and behaviour

- no instruction
- insufficient planning and preparation of work
- lack of communication
- insufficient coordination
- uncertain responsibilities
- lack of checks
5 main columns

- lead and organize
- check and assess
- inform and motivate
- plan and document
- analyse and evaluate

systematic safety

StBG
Steinbruchs-Berufsgenossenschaft
The seal of approval: systematic safety
The seal of approval: systematic safety
The certificate
Outlook

3-Column-Model

- fewer regulations
- customer-oriented practice manual
- attractive incentive system
Content

A

the road to more personal responsibility
fewer regulations

B

the easy to comprehend, clear and up-to-date tool for work
customer-oriented practice manual

C

who does more receives more
attractive incentive system
Regulations of the StBG up to 2004

- BGV A6: Fachkräfte für Arbeitssicherheit i.d.F. vom 1.10.2002
- BGV A7
- BGV A8

- BGV B1
- BGV B3
- BGV B12

- BGV C11
- BGV C12
- BGV C15
- BGV C22
- BGV C24

- BGV D1
- BGV D3
- BGV D6
- BGV D7
- BGV D8
- BGV D12: Schleif- und Bürstwerkzeuge i.d.F. Vom 1.10.2002
- BGV D30: Schienenbahnen i.d.F. Vom 1.10.1998

- BGV E1:

43 regulations, 820 pages, 1493 articles

+ Maschinenaltbestand (15 UVVen)
Regulation of the StBG from now on

- BGV A1: Grundsätze der Prävention i.d.F. vom 1.1.2004
- BGV A4
- BGV A6
- BGV A7
- BGV A9
- BGV A10: Fachkräfte für Arbeitssicherheit i.d.F. vom 1.10.2002
- BGV A11: Betriebsärzte vom 1.10.2000
- BGV A12: Sicherheits- und Gesundheitsschutzkennzeichnung am Arbeitsplatz vom 1.4.2002
- BGV B3
- BGV C1
- BGV C2
- BGV C21
- BGV C22
- BGV D6: Krane i.d.F. vom 1.10.2000

15 regulations, 308 pages, 532 articles
The new reduced body of regulation

- The number of regulations has been decreased from 43 to 15 (-65%)
- The number of articles has been decreased from 1,493 to 532 (-64%)
- The volume has been reduced from 820 to 308 pages (-62%)
up to the end of 2004 a branch related practice manual will replace a great part of the body of regulations
the situation

the most common hazards
Page layout

- measures

- further informations
from the year 2005 on, insured companies will be able to take advantage of premiums
Targets of the incentive system

- Supporting innovations
- Establish positive material incentives
- Support the implementation of best practice solutions
- Increase employers motivation to invest in occupational safety
- Meet the demands of insured companies
the amount of awarded money will cover approx. 20% of the total investment
relevant initiatives for awarding

- obtainment of the Seal "Systematic Safety" or similar proof
- putting certain improvements of OSH into practice
- putting certain measures aiming at the decrease of occupational hazards into practice
- outstanding results in preventing work accidents
- putting certain innovations on the basis of StBG's Award Work - Safety - Health into practice