The Role of Social Security in the Prevention of Risk in Latin America and the Caribbean

Rodolfo Arias Díaz
Head of Division of Risk Prevention
Mexican Institute of Social Security
Universe

829,500
AFFILIATE
COMPANIES

14,342,126
WORKERS

Source: Memoria Estadística Institucional IMSS.2010
EMPLOYED WORKERS BY SIZE OF AFFILIATED COMPANIES, IMSS

March 2009

<table>
<thead>
<tr>
<th>Size of Company</th>
<th>Companies</th>
<th>Workers</th>
</tr>
</thead>
<tbody>
<tr>
<td>MICRO (1-15)</td>
<td>14.62</td>
<td>80.33</td>
</tr>
<tr>
<td>SMALL (16-100)</td>
<td>13.89</td>
<td>49.89</td>
</tr>
<tr>
<td>MEDIUM (101-250)</td>
<td>17.38</td>
<td>18.11</td>
</tr>
<tr>
<td>LARGE (&gt;250)</td>
<td>3.77</td>
<td>2.00</td>
</tr>
</tbody>
</table>

Source: Emisión Mensual Anticipada, marzo 2009.
Loss of Health

403 336
ACCIDENTS AT WORK

506 528
RISK AT WORK

99 726
ON THE WAY TO WORK
ACCIDENTS

3 466
ILLENESS AT WORK

Source: Memoria Estadistica Institucional, 2010
Problematic 2006-2010

<table>
<thead>
<tr>
<th>Concept</th>
<th>Quantity</th>
<th>IP</th>
<th>Deaths</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accidents at Work</td>
<td>1,880,322</td>
<td>83,853</td>
<td>5,471</td>
</tr>
<tr>
<td>Illness at Work</td>
<td>18,654</td>
<td>31,683</td>
<td>19</td>
</tr>
</tbody>
</table>

In these five years there was an increase of accidents and occupational diseases as a whole of 29.5%, from 314,254 in 2006 to 406,802 in 2010.

Permanent disabilities increased by 23.4%, from 18,140 to 22,389.

Source: Memoria Estadística Institucional IMSS.2010
Review of Prevention in IMSS

**Prevention**
- Actions that are intended to come before the events occurring

**Safety at Work**
- Known as Safety and not Security

**Industrial Hygiene**
- Discipline that prevents occupational diseases through the recognition, evaluation and control of risk factors present in the work environment

**Surveillance of Environmental Work**
- Participation in the diagnosis of health, safety and hygiene and workplace affiliates IMSS
JUSTIFICATION OF RISK PREVENTION

Institutional Approach

- Economic Reasons
- Legal Reasons
- Ethic Reasons
- Management Reasons
Expenses for Labor Risk Insurance 2010

$1,500 MUSD

IN KIND BENEFITS (Art 56 LSS)

- Medical, surgical and pharmaceutical
- Inpatient hospital services
- Prosthetic and orthotic devices
- Rehabilitation

CASH BENEFITS (Art 58 LSS)

Source: Memoria estadística Institucional . 2010
Legal Basis

➢ Social Security Act

Article 82. The Institute will carry out investigations as it deems appropriate on workplace hazards and suggest a pattern of suitable techniques and practices as to prevent the realization of these risks.

The Institute may verify the establishment of programs or risk preventive actions in companies that work on registered claims, these may decrease the amount of insurance premium.
Ethic Reasons

403,336 Accidents at work
  1,105 Accidents / day
  3,466 Illness at work
11,918,891 Loss days for disability
13,603 Permanent disabilities AT
  1,122 Deaths for AT

Source: Coordinación de Salud en el Trabajo. SUI 55/ST-5. 2010
Loss of Materials
Loss of Hours at work
Damages of property
Loss of productivity

$1,850 MUSD

Insurance of Risk at Work

$11,045 MUSD*

Five times the Direct Cost according to ILO.

Source: Memoria Estadística Institucional. 2010
WHAT DOES IMSS IN RISK PREVENTION WITH THE AFFILIATE COMPANIES?
STRATEGIES

Actions that under this program are committed have been raised with a focus of results and can be grouped as:

- Actions on health and safety at work,
- Communication on occupational health and safety,
- Education for Health and Safety at Work

**Actions of health and safety at work.**
They have as objective to assist in the injuries and illnesses prevention in the workplace of affiliated companies and workplaces of the Mexican Institute of Social Security.
Communication in occupational safety and health at work.

In this sense, it is doing design activities of specific material to provide information and training to the workers of the companies and workplaces of IMSS in safety and health at work, with this resources be spread concepts and strategies for the injuries and illnesses prevention.
Education for Safety and Health at work.

Key part in order to influence in a prevention culture of injuries and illnesses. The DPRT has committed raising the operational performance of our people as well as the quality in training services that are provided to own employees of the Institute and workers affiliated companies.
Preventive Actions

Who does?

- ADVISE
- EDUCATION /TRAINING
- TECHNICAL SUPPORT
- INFORMATION

EMPLOYERS AND WORKERS
AFFILIATED COMPANIES

SPECIALISTS
AND TECHNICS
IN INDUSTRIAL
SAFETY AND HYGIENE

SERVICES
General Procedure for the Prevention Risk at Work in a Company

Specialized Equipment

- Interview with the company.
- Setting objectives and scope.
- Establishment of agreements and commitments

Identification and assessment of risk factors.
Diagnosis of health and safety at work.
Presentation to the company representative.
Safety and Prevention Program
Health at Work

- Suggested measures to prevent occupational hazards.
  - Setting priorities for solving the problem.
  - Scheduling preventive program activities

Follow Preventive Security Program
and Health at Work

- Verification of compliance with the preventive measures of occupational hazards.
  - Technical support.
  - Rethinking activities.
Scope of Program

400 Work Safety Specialists in the program

The program has the ability to cover only 2.3% of the affiliated companies with problems of accidents.

The estimated benefit of 3.5% of all workers registered at Work Risk Insurance and 40% of IMSS workers.

According to the trends expected to decrease more than 5,000 accidents per year in businesses and operated workplaces.
### Actions taken on hygiene at work

<table>
<thead>
<tr>
<th>Description</th>
<th>Measurement Unit</th>
<th>Completed January-November 2011</th>
</tr>
</thead>
<tbody>
<tr>
<td>Industrial hygiene studies.</td>
<td>Studies</td>
<td>1,261</td>
</tr>
<tr>
<td>Industrial hygiene prevention programs.</td>
<td>Programs</td>
<td>1,247</td>
</tr>
<tr>
<td>Evaluation of agents in the work environment (physical, chemical, biological and ergonomic).</td>
<td>Assessments</td>
<td>4,089</td>
</tr>
</tbody>
</table>
## Safety actions at work

<table>
<thead>
<tr>
<th>Description</th>
<th>Measurement Unit</th>
<th>Completed January-November 2011</th>
</tr>
</thead>
<tbody>
<tr>
<td>Studies of safety in the work.</td>
<td>Studies</td>
<td>1,318</td>
</tr>
<tr>
<td>Preventive safety programs at work.</td>
<td>Programs</td>
<td>1,313</td>
</tr>
<tr>
<td>Monitoring and advising to companies and workplaces and IMSS childcare.</td>
<td>Monitoring Report</td>
<td>2,748</td>
</tr>
</tbody>
</table>
Actions taken in Education for Health and Safety at Work

<table>
<thead>
<tr>
<th>Description</th>
<th>Measurement Unit</th>
<th>Completed January-November 2011</th>
</tr>
</thead>
<tbody>
<tr>
<td>Learn basic safety and hygiene in the work.</td>
<td>Attendees</td>
<td>29,059</td>
</tr>
<tr>
<td>Monographic courses health and safety at work.</td>
<td>Attendees</td>
<td>6,328</td>
</tr>
<tr>
<td>Graduates of health, safety and hygiene at work.</td>
<td>Attendees</td>
<td>280</td>
</tr>
</tbody>
</table>
Intervened companies and workers with benefits, from 2008 to 2011

<table>
<thead>
<tr>
<th>Actions</th>
<th>2008</th>
<th>2009</th>
<th>2010</th>
<th>2011*</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intervened companies with preventive programs.</td>
<td>1,280</td>
<td>1,305</td>
<td>1,285</td>
<td>1,297</td>
<td>5,167</td>
</tr>
<tr>
<td>Workers benefited</td>
<td>544,166</td>
<td>551,229</td>
<td>501,990</td>
<td>470,313</td>
<td>2,067,698</td>
</tr>
</tbody>
</table>

*Figure for January to September 2011.*
In the IMSS companies high accident studies are carried out and preventive health and safety in order to reduce the incidence of accidents and occupational diseases in the companies audited, through recommendations based on official Mexican standard issues.
Number of Accidents Prevented 2009-2011*

- 2009: 5,714
- 2010: 5,454
- 2011*: 5,750

*a Corresponding figures for the period January-December
*b Corresponding figures for the third quarter (January-September 2011)
ACCESS TO INDUSTRIAL SECTOR WITH PREVENTIVE PROGRAMS

- Supermarkets, convenience stores
- Sale of food, beverages
- Food preparation and serving
- Temporary accommodation
- Construction
- Manufacture of basic iron, steel and nonferrous metals
- Manufacture of plastic products
CONCLUSIONS

In the last three years, IMSS has achieved the prevention of almost 17,000 accidents at work and more than a million and a half workers have benefitted.

In the financial aspect, and taking into account that each accident at work attended in emergency rooms costs around $2,200 USD, IMSS has saved more than 37 million dollars.

With the objective of achieving a decrease of at least 2.5% of accidents at work, IMSS requires that the companies increase the preventive actions through these kind of strategies with active participation of companies.
THANKS FOR YOUR ATENTION