
Division of Occupational Safety and Health Inspection
Department of Labour Protection and Welfare

Division of Occupational Safety and Health Inspection
Department of Labour Protection and Welfare
# Tables of Contents

<table>
<thead>
<tr>
<th>Topic</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Executive Summary</strong></td>
<td>4</td>
</tr>
<tr>
<td>- A copy of the Secretariat of the Cabinet No. 0506/5591</td>
<td>6</td>
</tr>
<tr>
<td>Date: April 18, 2007</td>
<td></td>
</tr>
<tr>
<td>Subject: The Second Master Plan on Occupational Safety, Health and</td>
<td></td>
</tr>
<tr>
<td>Working Environment (A.D.2007-2011)</td>
<td></td>
</tr>
<tr>
<td><strong>Conceptual framework for the development of the Second Master Plan</strong></td>
<td>8</td>
</tr>
<tr>
<td>(A.D.2009 Revision)</td>
<td></td>
</tr>
<tr>
<td><strong>Occupational Safety, Health and Working Environment Status</strong></td>
<td>10</td>
</tr>
<tr>
<td>- Occupational Injury Rate per 1,000 workers (A.D.2002-2007)</td>
<td>12</td>
</tr>
<tr>
<td>- Occupational Injuries or Diseases Classified by Severity (A.D.2007)</td>
<td>13</td>
</tr>
<tr>
<td>- Number and Percentage of Occupation Injuries or Diseases Classified by the Top Ten Injured Body Parts (A.D.2007)</td>
<td>13</td>
</tr>
<tr>
<td><strong>Appendix 1</strong></td>
<td>39</td>
</tr>
<tr>
<td><strong>Appendix 2</strong></td>
<td>43</td>
</tr>
<tr>
<td><strong>Appendix 3</strong></td>
<td>45</td>
</tr>
<tr>
<td><strong>Working group and advisors</strong></td>
<td>48</td>
</tr>
</tbody>
</table>
The Second Master Plan on Occupational Safety, Health and Working Environment (A.D.2007-2011) (A.D.2009 Revision) was systematically developed (a) based on experiences from the First Master Plan (A.D.2002-2006), (b) in accordance with government policy aimed at protecting workers under the Thai labour standards which focus on workplace safety and labour welfare and on extensive protection of workers in the informal sector in accordance with the goals of the tenth National Economic and Social Development Plan to “enhance living with safety”, and (c) in accordance with the Labour Master Plan statement that everyone is employed and works safely in order to meet the goal of “sustainable and systematic workplace safety management by the corporations of every sector to promote worker’s good quality of life.”

The Second Master Plan (A.D.2007-2011) was prepared with the cooperation of government and the private sector and was ratified at a public hearing. According to section 100 of the Labour Protection Act (A.D.1998), it was approved in principle by the occupational safety, health and working environment committee, a national tripartite committee. In addition, the cabinet unanimously endorsed the second Master plan on April 18, 2007.

The Second Master Plan (A.D.2007-2011) (A.D.2009 Revision) indicates the directions and approaches from the present to 2011. It aims to play a role in the promotion of “good safety and health for workers and business competitiveness at the international level”. The plan comprises:

- Occupational Safety, Health and Working Environment Status (A.D.2007-2011);
- Significant policies on safety at work; and
The Plan covers five strategic issues as follows:

1. Develop competency in occupational safety, health and working environment personnel;
2. Enhance the level of holistic management of occupational safety, health and working environments;
3. Develop effective management of occupational safety, health and working environments;
4. Promote participation of all sectors in occupational safety, health and working environments; and
5. Develop information technology and public relations systems for occupational safety, health and working environments.

The Plan contains five clarified goals as follows:

1. To provide an adequate number of qualified occupational safety, health and working environment personnel;
2. To ensure there are capable organizations to manage and support occupational safety, health and working environments in accordance with international principles;
3. To foster and promote OSH in accordance with international principles;
4. To increase access, participation and recognition by all sectors; and
5. To provide comprehensive and updated data and technology on occupational safety, health and working environments that are relevant and accessible.
April 18th, 2007


Attn: Minister of Labour

Refer to: Ministry of Labour memo No. 0503/943 dated March 27th, 2007

According to the submission of the Second Master Plan on Occupational Safety, Health and Working Environment (A.D.2007-2011) to process as earlier notified in details.

On April 18th, 2007, the cabinet mutually agreed on the second Master Plan.

This is a notification letter. Accordingly, the office of the secretariat of the cabinet has informed all related persons in the attached list.

Sincerely yours,

(Mrs. Sibpan Wanawisut)
Director, Bureau of Cabinet Submission Analysis
Acting Director of the secretariat of the cabinet

1. Minister of Foreign Affairs
2. Minister of Social Development and Human Security
3. Minister of Information and Communication Technology
4. Minister of Interior
5. Minister of Public Health
6. Minister of Industry
7. Secretary-General of the National Economic and Social Development Board

National level: Strategies, goals, and strategic approaches to achieve systematic and sustainable management for “good safety and health for workers and the business competitiveness at international levels”

**Principles**
- Systematic and sustainable management
- All sectors participation
- Safety at work

**Objectives**
- Develop OSH standards
- Promote, develop and control OSH measures
- Develop and strengthen OSH network
- Promote and develop OSH management systems

**Missions**
- Good safety and health for workers
- Business competitiveness at international levels

**Outcome**

**Significant Policies**
- The National Economic and Social Development Plan
- Master Plan on Labour

**Problems of unsafe conditions and occupation injuries and diseases**
During the transition between the first (A.D.2002-2006) and Second (A.D.2007-2011) Master Plan on Occupational Safety, Health and Working Environment, the occupational safety and health status of workers had improved, a result of all parties’ participation including private and government sectors. The action plan of this Second Master Plan involves the continuation of projects and activities of the first Master Plan, the delivery of those projects and activities still outstanding from the first Master Plan as a priority, and activities which will lead to actions to manage problems, weaknesses and threats in the current situation. In addition, it involves activities to develop safety at work in order to conform with international practices. Since labour status is one of the major keys for economic and social development, in order to protect all workers and to ensure the safety and security of workers lives, the Occupational Safety, Health and Working Environment Committee (according to section 100 of the Labour Protection Act (A.D.1998)) and the Department of Labour Protection and Welfare urged the government to approve the Plan in principle. The government thereby declared the national policy on “decent safety and health for workers” on December 11th, 2007 with the time frame until A.D.2016. The Policy comprises seven goals as follows:

(1) Ensure occupational safety for workers under the National Master Plan on Occupational Safety, Health and Working Environment;

(2) Ensure the compliance of safe working environments standards for workers in all sectors;

(3) Raise the awareness of workers and enhance their knowledge of occupational safety, health and working environments;

(4) Decrease the occupational injury rate;

(5) Provide accessible information on occupational safety, health and environments to workers;

(6) Conduct a systematic surveillance on occupational safety and health for workers; and

(7) Create a safety culture at work.
According to follow-up of the second Master Plan implementation during A.D.2005-2006, several activities were systematically put into practice and the achievements and problems were identified. Due to fluctuations in the global economic situation, which somewhat impacted on the working cycle, it was crucial to analyze these follow-up results together with the occupational injury data, completed activities, and future activities. Although the occupational injuries per 1,000 workers during A.D.2002-2007 decreased (Table 1, Figure 1, 2 and 3) in comparison with neighboring countries, the Thai occupational injury rates were still high. Therefore, the Ministry of Labour and related organizations adjusted the activities of the second Master Plan for the period A.D.2009-2011 in order to identify key performance indicators and revise the plan in accordance with the current situation.
## Table 1. Occupational Injury Rate per 1,000 workers (A.D.2002-2007)

<table>
<thead>
<tr>
<th>Years</th>
<th>No. of Employees under workmen’s compensation fund</th>
<th>All cases</th>
<th>Severe cases</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Occupational injury (case)</td>
<td>Occupational injury rate (per 1,000 workers)</td>
</tr>
<tr>
<td>2002</td>
<td>6,541,105</td>
<td>190,979</td>
<td>29.20</td>
</tr>
<tr>
<td>2003</td>
<td>7,033,907</td>
<td>210,673</td>
<td>29.95</td>
</tr>
<tr>
<td>2004</td>
<td>7,386,825</td>
<td>215,534</td>
<td>29.18</td>
</tr>
<tr>
<td>2005</td>
<td>7,720,747</td>
<td>214,235</td>
<td>27.75</td>
</tr>
<tr>
<td>2006</td>
<td>7,992,025</td>
<td>204,257</td>
<td>25.56</td>
</tr>
<tr>
<td>2007</td>
<td>8,178,180</td>
<td>198,652</td>
<td>24.29</td>
</tr>
</tbody>
</table>

Source: Office of the Workmen's Compensation Fund

Remarks:
1. Workplaces with more than 1 worker have been covered since April 1st, 2002.
2. All cases mean death, disability, loss of a body part, more than 3 workdays lost, and less than 3 workdays lost.
3. Severe cases mean death, disability, loss of a body part, and more than 3 workdays lost.

## Figure 1. Occupational Injury Rate per 1,000 workers (A.D.2002-2007)

![Graph showing occupational injury rate per 1,000 workers from 2002 to 2007.]

- ▲ All cases
- ◇ Severe cases
Figure 2. Occupational Injuries or Diseases Classified by Severity (A.D.2007)

Loss of one or more body parts: 3,259 cases (1.641%)
Loss of more than 3 workdays: 50,525 cases (25.434%)
Disability: 16 cases (0.008%)
Death: 741 cases (0.373%)
Loss of less than 3 workdays: 144,111 cases (72.544%)

Figure 3. Number and Percentage of Occupation Injuries or Diseases Classified by the Top Ten Injured Body Parts (A.D.2007)

Arms, elbows 5.13% (10,190 cases)
Fingers 27.95% (55,516 cases)
Legs, shin, calves 3.46% (6,880 cases)
Toes 4.32% (8,581 cases)
Multiple body parts injured (6.27%, 12,451 cases)
Feet, heel, skin bridging the toes 8.39% (12,695 cases)
Hands, skin bridging the fingers 6.80% (13,517 cases)
Back 2.50% (4,976 cases)
Eyes 19.73% (39,193 cases)
Head 3.53% (7,005 cases)
Multiple body parts injured (6.27%, 12,451 cases)

Loss of one or more body parts:
3,259 cases (1.641%)
Loss of more than 3 workdays:
50,525 cases (25.434%)
Disability:
16 cases (0.008%)
Death:
741 cases (0.373%)
Loss of less than 3 workdays:
144,111 cases (72.544%)

Arms, elbows 5.13% (10,190 cases)
Fingers 27.95% (55,516 cases)
Legs, shin, calves 3.46% (6,880 cases)
Toes 4.32% (8,581 cases)
Multiple body parts injured (6.27%, 12,451 cases)
Feet, heel, skin bridging the toes 8.39% (12,695 cases)
Hands, skin bridging the fingers 6.80% (13,517 cases)
Back 2.50% (4,976 cases)
Eyes 19.73% (39,193 cases)
Head 3.53% (7,005 cases)
Structure

of the Second Master Plan on Occupational Safety, Health and Working Environment
(A.D.2007-2011)
(A.D.2009 Revision)

National Level: Good safety and health for workers and business competitiveness at international levels

3 Objectives
- Sustainable and systematic workplace safety management.
- All sector participation.
- Occupational safety and health.

4 Missions
- Develop standards for occupational safety, health and working environment in accordance with international standards.
- Promote, develop and supervise safety, health and working environment.
- Develop and strengthen safety, health and working environment networks in all sectors.
- Promote and develop management systems for occupational health, safety and working environment.

5 Strategies
- Develop competency of OSH personnel.
- Enhance the level of holistic management for occupational health, safety and working environment.
- Develop effective OSH management.
- The promotion of all sector participation.
- The development of information technology on OSH.

5 Goals
- To provide an adequate number of qualified safety personnel.
- To ensure there are organisations capable of meeting international standards.
- To protect and promote safety in accordance with international principles.
- To provide access, participation and recognition among all sectors.
- To provide data which is comprehensive/updated/adequate and accessible.

9 Strategic approaches
- The development of existing and establishment of new target groups.
- The establishment and development of organisational competency.
- The development of standards and laws which comply with international practices.
- The development of protection and promotion systems in accordance with the international level.
- The study and research for development.
- Network system establishment.
- Providing and promoting group assembly and activities.
- The establishment of an information technology network.
- The development of communication technology.
Figure 1. The relationship between Strategic Issue 1 and project concepts

**Strategic Issue 1**
The competency development of the occupational safety, health and working environment personnel.

**Project Concept**
The establishment and development of safety courses for all sectors (education/workplace/manufacturing/informal sector/government/state enterprise).

**Project Concept**
The competency development of safety personnel to enhance knowledge and understanding.

**Project Concept**
The promotion, development, and set up of a registration system for safety specialists and trainers.

**Project Concept**
The exchange of knowledge and experience among local and international organizations as well as private sector network development.
Figure 2. The relationship between Strategic Issue 2 and project concepts
Project Concept
The process for the ratification of the ILO convention for OSH

Project Concept
The preparation of manuals or guidelines for OSH

Project Concept
The establishment and development of chemical management in accordance with international systems

Project Concept
The development of systems for OSH inspection and accident investigation

Project Concept
The development/revision of safety laws to cover working conditions/types of work/risk factors and to be less complicated

Project Concept
The establishment and development of the certification process for occupational safety and health management systems

Project Concept
The establishment and development of occupational injuries and diseases follow-up and surveillance systems

Project Concept
The development of the reporting system using information technology

Project Concept
The study or research to develop OSH standards and practices

Project Concept
The promotion and support for manufacturing and other sectors to set up management systems for OSH

Project Concept
The development of a law enforcement system for OSH

Strategic Issue 3
The development of effective management for occupational safety, health and working environment

Figure 3. The relationship between Strategic Issue 3 and project concepts
Figure 4. The relationship between Strategic Issue 4 and project concepts

- **Project Concept**
  The promotion of OSH network or type of work assembly to perform safety activities

- **Project Concept**
  The promotion of all sectors participation in occupational safety, health and working environment

- **Project Concept**
  The campaign of safety at work awareness

- **Project Concept**
  The promotion and development of OSH for the informal and other sectors

- **Project Concept**
  The management or promotion of activities for the exchange of OSH knowledge and learning

- **Project Concept**
  The promotion and development of OSH in SMEs
Figure 5. The relationship between Strategic Issue 5 and project concepts
The Second Master Plan on Occupational Safety, Health and Working Environment
(A.D.2007-2011)
(A.D.2009 Revision)

Strategic Issue 1
Develop the competency of occupational safety, health and working environment personnel.

Goal
To provide an adequate number of qualified occupational safety, health and working environment personnel.

Strategic approach
Develop the capacity of existing target groups and establish an approved and adequate number of new target groups.

<table>
<thead>
<tr>
<th>Project Concepts</th>
<th>Indicators</th>
<th>Goals</th>
<th>Unit</th>
<th>Target Numbers</th>
<th>Activities</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2007</td>
<td>2008</td>
</tr>
<tr>
<td>1. The establishment and development of OSH courses for all sectors (education/workplace/manufacturing/informal sector/government/state enterprise)</td>
<td>Appropriate OSH training courses for the target groups</td>
<td>Number of available courses and their implementation</td>
<td>Number of courses</td>
<td>8</td>
<td>8</td>
</tr>
<tr>
<td>2. The competency development of OSH personnel to enhance knowledge and understanding</td>
<td>Develop OSH personnel to increase their knowledge</td>
<td>Number of developed personnel</td>
<td>Number of personnel</td>
<td>3,000</td>
<td>3,000</td>
</tr>
<tr>
<td>Project Concepts</td>
<td>Indicators</td>
<td>Goals</td>
<td>Unit</td>
<td>Target Numbers</td>
<td>Activities</td>
</tr>
<tr>
<td>--------------------------------------------------------------------------------</td>
<td>---------------------------------------------------------------------------</td>
<td>----------------------------------------------------------------------</td>
<td>----------------------</td>
<td>----------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
</tbody>
</table>
| 3. The promotion, development, and set up of a registration system for safety specialists and trainers | Establish a registration system for safety specialists or trainers in order to support the development of personnel | Level of progress towards establishing a registration system          | Number of systems  | 2007 2008 2009 2010 2011 | (1) Survey/consider the safety specialists or trainers in different fields  
(2) Establish a registration system  
(3) Disseminate information |
| 4. The exchange of knowledge and experience among local and international organizations as well as development of a private sector network | Establish a network for the exchange of knowledge                         | Number of networks participating in knowledge exchange                | Number of networks  | 2007 2008 2009 2010 2011 | (1) Knowledge management in the organization  
(2) Coordination of knowledge exchange between the organizations  
(3) Establishment of knowledge for dissemination to target groups |
**Strategic Issue 2**

Enhance the level of holistic management of occupational safety, health and working environments.

**Goal**

To ensure there are capable organizations to manage and support occupational safety, health and working environments in accordance with international principles.

**Strategic approach**

Establish and develop the organizations responsible for occupational safety, health and working environment.

<table>
<thead>
<tr>
<th>Project Concepts</th>
<th>Indicators</th>
<th>Goals</th>
<th>Unit</th>
<th>Target Numbers</th>
<th>Activities</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Establish the Department of safety at work</td>
<td>A departmental organization capable of supporting OSH activities is established</td>
<td>Percentage of progress towards setting up the department</td>
<td>Percent</td>
<td>20 30 50 80 100</td>
<td>Reorganization</td>
</tr>
<tr>
<td>2. The establishment of a non-governmental organization for safety at work</td>
<td>Non-governmental organization capable of supporting safety services established</td>
<td>Percentage of progress towards setting up the non-governmental organization</td>
<td>Percent</td>
<td>20 30 50 80 100</td>
<td>Reorganization</td>
</tr>
</tbody>
</table>
| 3. The establishment of an OSH learning centre | International level learning centre established | Percentage of progress towards the setting up of learning centre | Percent | 10 20 30 40 50 | (1) Budget support from the government  
(2) Public relations to support different issues  
(3) Set up the learning system |
<table>
<thead>
<tr>
<th>Project Concepts</th>
<th>Indicators</th>
<th>Goals</th>
<th>Unit</th>
<th>Target Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2007</td>
</tr>
<tr>
<td>4. The promotion of capacity development of the organizations related to OSH</td>
<td>Establish organizations competent in OSH</td>
<td>Number of the developed organizations</td>
<td>Location</td>
<td>10</td>
</tr>
<tr>
<td>5. Prepare and develop organizations to support occupational safety and health management systems</td>
<td>Develop organizations competent in supporting occupational safety and health management systems</td>
<td>Number of developed organizations</td>
<td>Location</td>
<td>-</td>
</tr>
</tbody>
</table>

**Activities**

(1) Survey and register the organizations
(2) Personnel performance

(1) Identify the target groups
(2) Develop organizations to support occupational safety and health management systems
### Strategic Issue 3
Develop effective management for occupational safety, health and working environment.

**Goal**
To protect and promote OSH in accordance with international principles

**Strategic approach**
1. The development of occupational safety, health and working environment standards and laws that comply with international practices
2. The development of occupational safety, health and working environment protection and promotion systems in accordance with international principles
3. The study and research to develop occupational safety, health and working environment standards and activities

<table>
<thead>
<tr>
<th>Project Concepts</th>
<th>Indicators</th>
<th>Goals</th>
<th>Unit</th>
<th>Target Numbers</th>
<th>Activities</th>
</tr>
</thead>
</table>
| 1. The development/revision of OSH laws to cover working conditions/types of work/risk factors and to be less complicated | Less complex laws covering working conditions | Number of promulgated laws | Number of laws | 2007: 2 | (1) Survey the laws in need of revision/enhancement  
(2) Study and draft the safety standards to promulgate as the law |
| | | | | 2008: 2 |  
| | | | | 2009: 2 |
| | | | | 2010: 2 |
| | | | | 2011: 2 |
| | | | | | (3) Clarification and dissemination |
| 2. The process for ratification of the ILO convention for OSH | Ratification of the ILO convention for OSH | Percentage of progress towards ratification (at least 1) | Percent | 2007: - | (1) Study the details of the convention  
(2) Preparation for readiness of operation |
| | | | | 2008: 60 |  
| | | | | 2009: 70 |
| | | | | 2010: 80 |
| | | | | 2011: 100 |
| | | | | | (3) Preparation for readiness in accordance with the convention  
(4) Ratification |
<table>
<thead>
<tr>
<th>Project Concepts</th>
<th>Indicators</th>
<th>Goals</th>
<th>Unit</th>
<th>Target Numbers</th>
<th>Activities</th>
</tr>
</thead>
</table>
| 3. The development of an OSH law enforcement system | An appropriate and success-directed law enforcement system in place | Level of progress towards the development of the law enforcement system | Number of systems | 2007 2008 2009 2010 2011 | (1) Follow-up the law enforcement by conducting a stakeholders' poll  
(2) Study international law enforcement systems  
(3) Adjust international law enforcement systems in accordance with Thai culture using information from (1) and (2)  
(4) At least one appropriate law enforcement system in place |
| 4. The promotion to and support for manufacturing and other sectors to set up occupational safety and health management systems | The manufacturing sector has its own occupational safety and health management systems | Number of manufacturers with occupational safety and health management systems in place | Location | 300 300 300 350 400 | (1) Training management system  
(2) Prepare the manuals, guidelines to support the process  
(3) Consulting on management system set up |
<table>
<thead>
<tr>
<th>Project Concepts</th>
<th>Indicators</th>
<th>Goals</th>
<th>Unit</th>
<th>Target Numbers</th>
<th>Activities</th>
</tr>
</thead>
</table>
| 5. The study and evaluation of status/working conditions for the development or promulgation of OSH standards/laws | A study of the actual OSH status/Problems conducted                        | Number of studies of problems or status                               | Number of issues          | 2007 2008 2009 2010 2011 | (1) Study the occupational injury rates  
                          |                                                                             |                                                                       |                            | 1 1 1 1 1 | (2) Study related international information  
                          |                                                                             |                                                                       |                            |     | (3) Collect data from the targeted manufacturers  
                          |                                                                             |                                                                       |                            |     | (4) Report the study |
| 6. The development of a reporting system using information technology          | An information technology reporting system in place                        | Percentage of progress towards the establishment of an information technology reporting system | Percent                   | 10 20 50 80 100 | (1) Study  
                          |                                                                             |                                                                       |                            |     | (2) Set up the system using information technology  
<pre><code>                      |                                                                             |                                                                       |                            |     | (3) Develop a complete system |
</code></pre>
<table>
<thead>
<tr>
<th>Project Concepts</th>
<th>Indicators</th>
<th>Goals</th>
<th>Unit</th>
<th>Target Numbers</th>
<th>Activities</th>
</tr>
</thead>
<tbody>
<tr>
<td>7. The development of systems for OSH inspection and accident investigation</td>
<td>Effectiveness systems for OSH inspection and accident investigation in place</td>
<td>(1) Percentage of progress towards development of an OSH inspection system</td>
<td>Percent</td>
<td>10 20 50 80 100</td>
<td>(1) Study the threats and weaknesses of previous performances</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(2) Percentage of progress towards development of an accident investigation system</td>
<td></td>
<td></td>
<td>(2) Develop the performance supporting factor</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(3) System development with pilot implementation</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(4) Follow-up the new OSH inspection and accident investigation systems</td>
</tr>
<tr>
<td>Project Concepts</td>
<td>Indicators</td>
<td>Goals</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>---------------------------------------------------------------------------------</td>
<td>-----------------------------------------------------------------------------</td>
<td>----------------------------------------------------------------------</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8. The establishment and development of follow-up and surveillance systems for occupational injuries and diseases in place and prevention of occupational diseases and disorders.</td>
<td>- A system for follow-up and surveillance of the occupational injuries and diseases in place and prevention of occupational diseases and disorders.</td>
<td>(1) Level of progress towards the development of the follow-up and surveillance systems for occupational diseases.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(2) Level of progress towards the development of the follow-up and surveillance systems for occupational injuries.</td>
<td>(2) The evaluation of OSH status.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(3) Follow-up the significant cases.</td>
<td>(3) Follow-up the significant cases.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(4) Systematic performance of the follow-up and surveillance systems.</td>
<td>(4) Systematic performance of the follow-up and surveillance systems.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Activities</td>
<td>Project Concepts</td>
<td>Target Numbers</td>
<td>Activities</td>
<td>Project Concepts</td>
<td>Target Numbers</td>
</tr>
<tr>
<td>---------------------------------------------------------------------------------</td>
<td>-----------------------------------------------------------------------------</td>
<td>----------------</td>
<td>-------------</td>
<td>----------------</td>
<td>----------------</td>
</tr>
<tr>
<td>(1) Study related data and information</td>
<td>(1) Be reported/be informed of clue or information/consultation</td>
<td>2007</td>
<td>-</td>
<td>-</td>
<td>1</td>
</tr>
<tr>
<td>(2) Coordinate with the occupational medicine organizations</td>
<td>(2) The evaluation of OSH status.</td>
<td>2008</td>
<td>-</td>
<td>-</td>
<td>2</td>
</tr>
<tr>
<td>(3) Study the occupational injuries and diseases monitoring data</td>
<td>(3) Follow-up the significant cases.</td>
<td>2009</td>
<td>-</td>
<td>-</td>
<td>3</td>
</tr>
<tr>
<td>(4) Follow-up the cases with indicators</td>
<td>(4) Systematic performance of the follow-up and surveillance systems.</td>
<td>2010</td>
<td>-</td>
<td>-</td>
<td>4</td>
</tr>
<tr>
<td>(5) System implementation</td>
<td></td>
<td>2011</td>
<td>-</td>
<td>-</td>
<td>5</td>
</tr>
</tbody>
</table>
### Project Concepts

#### 9. The establishment and development of an occupational safety, health and working environment management system certification process

- **Indicators:** A certification process in place for manufacturers with occupational safety and health management systems
- **Goals:** Level of progress towards the establishment and development of occupational safety and health management system certification process
- **Unit:** Level
- **Target Numbers:**
  - 2007: -
  - 2008: -
  - 2009: 1
  - 2010: 2
  - 2011: 3

- **Activities:**
  1. Study certification systems
  2. Identify criteria and certification conditions
  3. Public relations
  4. Evaluation
  5. Set up the certification bodies
  6. System certification

#### 10. The establishment and development of chemical management in accordance with international systems

- **Indicators:** Manufacturers have a chemical management system in place in accordance with international systems
- **Goals:** Level of progress towards chemical management in accordance with international systems
- **Unit:** Level
- **Target Numbers:**
  - 2007: 1
  - 2008: 2
  - 2009: 3
  - 2010: 4
  - 2011: 5

- **Activities:**
  1. Coordinate with networks for chemical management in accordance with international system
  2. Prepare the manuals
  3. Public relations
  4. Education and advice
  5. Support manufacturers to set up a chemical management system in accordance with international systems
<table>
<thead>
<tr>
<th>Project Concepts</th>
<th>Indicators</th>
<th>Goals</th>
<th>Unit</th>
<th>Target Numbers</th>
<th>Activities</th>
</tr>
</thead>
</table>
| 11. The study or research to develop OSH standards and practices               | Study or research results to be the reference for the development of OSH standards or practices | Number of studies or research                                         | Issues | 2007 2008 2009 2010 2011 | (1) Identify the subjects  
(2) Describe study or study project  
(3) Perform the study or research |
| 12. The preparation of manuals or guidelines for occupational safety, health and working environment | Manuals or guidelines for safety activities prepared | Number of subjects | Number of issues | 2 2 2 2 2 | (1) Study relevant local and international data  
(2) Compile and prepare the manuals or guidelines in accordance with the law and standards/safety measures  
(3) ISBN issuing |
### Strategic Issue 4
The promotion of all sectors participation in occupational safety, health and working environment.

#### Goal
To allow more access, participation, and recognition by all sectors.

#### Strategic approach
1. The establishment of the occupational safety, health and working environment networks
2. The establishment or promotion of group assemblies and activities

<table>
<thead>
<tr>
<th>Project Concepts</th>
<th>Indicators</th>
<th>Goals</th>
<th>Unit</th>
<th>Target Numbers</th>
<th>Activities</th>
</tr>
</thead>
</table>
| 1. The promotion of occupational safety, health and working environment awareness | Safety awareness promotion in target groups                               | Number of manufacturers participating in the project                  | Location   | 2007 | 2008 | 2009 | 2010 | 2011 | (1) Establish the safety awareness structure  
2. The promotion of OSH networks or type of work assembly to perform OSH activities | OSH networks or group assembly to perform OSH activities                  | Number of OSH networks or OSH activity groups                        | Number of networks | | | | | | | (2) Promote the establishment of networks or activity groups  
(3) Public relations  
(4) Follow-up |
<table>
<thead>
<tr>
<th>Project Concepts</th>
<th>Indicators</th>
<th>Goals</th>
<th>Unit</th>
<th>Target Numbers</th>
<th>Activities</th>
</tr>
</thead>
<tbody>
<tr>
<td>3. The management or promotion of activities for the exchange and learning of OSH knowledge</td>
<td>Activities to exchange OSH knowledge organised</td>
<td>Number of activities to exchange OSH knowledge</td>
<td>Number of activities</td>
<td>2 2 2 2 2</td>
<td>(1) Identify the activities (2) Public relations (3) Perform activities (4) Follow-up</td>
</tr>
<tr>
<td>4. The promotion and development of OSH in SMEs*</td>
<td>Promotion and development of OSH for target groups</td>
<td>(1) Number of manufacturers participating in the activities (2) Percentage of OSH promotions performed</td>
<td>Location Percent</td>
<td>250 250 300 300 300</td>
<td>(1) Focus on target groups (2) Study the problems (3) Participate in the development (4) Develop the supporting factors</td>
</tr>
</tbody>
</table>

* Medium enterprises means manufacturers with 50-199 employees
Small enterprises means manufacturers with 1-49 employees
<table>
<thead>
<tr>
<th>Project Concepts</th>
<th>Indicators</th>
<th>Goals</th>
<th>Unit</th>
<th>Target Numbers</th>
<th>Activities</th>
</tr>
</thead>
<tbody>
<tr>
<td>5. The promotion and development of OSH for the informal and other sectors</td>
<td>Promotion and development of OSH for target groups</td>
<td>(1) Number of informal sector workers with OSH training</td>
<td>- Number of workers</td>
<td>150 600 600 600 600</td>
<td>(1) Focus on target groups</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- Location</td>
<td>- 60 300 300 300</td>
<td>(2) Study the problems</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(2) Percentage of trained manufacturers performing OSH improvements</td>
<td>- Percent</td>
<td>80 80 80 80 80</td>
<td>(3) Participate in the development</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(4) Develop the supporting factors</td>
</tr>
</tbody>
</table>
Strategic Issue 5  The development of information technology and public relations systems for occupational safety, health and working environments.

Goal  To provide comprehensive and updated data/technology/exchange on safety, health and working environment which is relevant and accessible.

Strategic approach  (1) The establishment of information technology networks and the development of occupational safety, health and working environment information and technology

(2) The development of computer systems and other media technologies

<table>
<thead>
<tr>
<th>Project Concepts</th>
<th>Indicators</th>
<th>Goals</th>
<th>Unit</th>
<th>Target Numbers</th>
<th>Activities</th>
</tr>
</thead>
</table>
| 1. The development of chemical, physical or biological information | Accurate and updated data available | Number of developed data                   | Number of data | 2007 | 2008 | 2009 | 2010 | 2011 | (1) Study local and international data  
(2) Coordinate with networks to exchange data  
(3) Establish accurate and updated information systems |
| 2. The development of information for safety equipment design | Having the correct and updated data | Number of developed data                   | Number of data | -    | -    | 1          | 1    | 1    | (1) Study local and international data  
(2) Coordinate with networks to exchange data  
(3) Establish accurate and updated information systems |
<table>
<thead>
<tr>
<th>Project Concepts</th>
<th>Indicators</th>
<th>Goals</th>
<th>Unit</th>
<th>Target Numbers</th>
<th>Activities</th>
</tr>
</thead>
<tbody>
<tr>
<td>3. The development of information technology for occupational safety, health and working environments</td>
<td>Accurate and updated data sets available</td>
<td>Number of developed data sets</td>
<td>Number of data sets</td>
<td>-</td>
<td>(1) Study local and international data</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
<td>(2) Coordinate with networks to exchange data</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
<td>(3) Establish accurate and updates information systems</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>4. The production of occupational safety, health and working environment media</td>
<td>Safety media produced for dissemination</td>
<td>Number of subjects covered in OSH media</td>
<td>Number of subjects</td>
<td>12</td>
<td>Prepare appropriate media for dissemination</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>14</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>16</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>18</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>5. The development of an e-learning system for occupational safety, health and working environment</td>
<td>An e-learning capability for OSH training in place</td>
<td>Level of success in development of the system</td>
<td>Level</td>
<td>-</td>
<td>(1) Appoint a working group</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>-</td>
<td>(2) Study and design of system</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td>(3) Establish the system and service</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Project Concepts</td>
<td>Indicators</td>
<td>Goals</td>
<td>Unit</td>
<td>2007</td>
<td>2008</td>
</tr>
<tr>
<td>------------------</td>
<td>------------</td>
<td>-------</td>
<td>------</td>
<td>------</td>
<td>------</td>
</tr>
<tr>
<td>6. The establishment of specific organizations to manage occupational safety, health and working environment information</td>
<td>An effective system to manage OSH information systems in place</td>
<td>Level of success in system development</td>
<td>Level</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>7. The establishment and development of public relations channels on occupational safety, health and working environments</td>
<td>Public relations channels in place for all target groups</td>
<td>(1) Number of public relations channels</td>
<td>Number of systems</td>
<td>5</td>
<td>5</td>
</tr>
</tbody>
</table>
Appendix 1
Related Organizations

1. Ministry of Labour
   1.1 Department of Labour Protection and Welfare
      1.1.1 Occupational Safety and Health Inspection Division
      1.1.2 National Institute for the Improvement of Working Conditions and Environment (NICE)
   1.2 Social Security Office
      1.2.1 Workmen’s Compensation Fund
   1.3 Department of Skill Development

2. Ministry of Industry
   2.1 Department of Industrial Works
      2.1.1 Safety Technology Bureau
      2.1.2 Hazardous Substances Control Bureau
      2.1.3 Bureau of Industrial Environmental Technology
   2.2 The Board of Investment of Thailand

3. Ministry of Public Health
   3.1 Department of Disease Control
      3.1.1 Bureau of Occupational and Environmental Diseases
   3.2 Food and Drug Administration
   3.3 Department of Health
   3.4 Department of Medical Sciences

4. Ministry of Interior
   4.1 Department of Public Works and Town & Country Planning
   4.2 Department Disaster Prevention and Mitigation

5. Ministry of Natural Resources and Environment
   5.1 Pollution Control Department
6. Ministry of Transport
   6.1 Marine Department
   6.2 Department of Land Transport
   6.3 Department of Civil Aviation

7. Ministry of Education
   7.1 Vocational Education Commission
   7.2 Office of the Higher Education Commission

8. Ministry of Agriculture and Cooperatives
   8.1 Department of Agriculture
   8.2 Land Development Department
   8.3 Department of Livestock Development
   8.4 Department of Agricultural Extension

9. Ministry of Science and Technology
   9.1 Office of Atoms for Peace

10. Ministry of Defence
    10.1 Defence Industrial Department
    10.2 Army Ordnance Department
    10.3 Naval Ordnance Department
    10.4 Naval Medical Department
    10.5 Directorate of Armament

11. Bangkok Metropolitan Administration
    11.1 Bangkok Fire and Rescue Department
    11.2 Health Department

12. Industrial Estate Authority of Thailand

13. The Federal of Thai Industries
14. The Employer’s Confederation of Thailand

15. Confederation of Thai Labour

16. Occupational Safety, Health and Working Environment Committee

17. Workmen’s Compensation Committee

18. Social Security Committee

19. Safety and Health at Work Promotion Association (Thailand)

20. Occupational Health and Safety at Work Association

21. The Association of Occupational and Environmental Diseases of Thailand

22. The Engineering Institute of Thailand

23. Council of Engineers

24. Ergonomics Society of Thailand

25. Safety at Work Promotion Foundation
Appendix 2

In accordance with the evaluation of the first Master Plan on Occupational Safety, Health and Working Environment (A.D.2002-2006), together with the result of a brainstorming seminar involving concerned parties to explore strengths, weaknesses, threats and opportunities of the safety at work status, the mutual agreement for the second Master Plan (A.D.2007-2011) structure should include these major components;

1. The second Master Plan should be a broad strategic plan to direct development for the coming 5-10 years. In addition, it should be in accordance with the first Master Plan and the national economic and social development plan. Moreover, it should harmonize with the labour development plan. The second Master Plan should include:
   - A clear vision to cover all significant targets;
   - Clarity in order to progress a proper action plan;
   - Strategies for essential development to achieve the goals and agree with the first Master Plan;
   - The setting of priorities setting and flexibility; and
   - Key performance indicators or standards to continually examine and evaluate the action plan.

2. The second Master Plan should emphasize broadly and continuously the participation of all sectors. This is to be performed by:
   - Attention to setting or supporting the participation process
   - An action plan based on available data
   - Attention to the continuously changing situation
   - A focus on public relations and data accessibility
   - Connection with all related organizations’ plans
Appendix 3

1. The Occupational Safety, Health and Working Environment Committee (according to section 100 of the Labour Protection Act (A.D.1998)), having the permanent secretary of the Ministry of Labour as Chairman, arranged a brainstorming seminar held between May 23rd-25th, 2005. The seminar attendees included representatives from employers, employees, academic, government, and related officers from the Department of Labour Protection and Welfare. The seminar aimed to identify approaches to develop the second Master Plan on Occupational Safety, Health and Working Environment (A.D.2007-2011) development.


5. On February 9th, 2007 the Department of Labour Protection and Welfare arranged a meeting for the final public hearing. The meeting attendees included representatives from the International Labour Organization, safety committees, officers from central and provincial government related offices.


7. The Occupational Safety and Health Inspection Division of the Department of Labour Protection and Welfare then disseminated and clarified the second Master Plan.

8. Relevant organizations set up the action plan in accordance with the second Master Plan.

9. The Department of Labour Protection and Welfare continuously followed up, monitored and then revised the second Master Plan.

10. The Occupational Safety, Health and Working Environment Committee (according to section 100 of the Labour Protection Act (1998)) appointed a sub-committee to follow-up and evaluate the second Master Plan.
Working group and advisors

Advisors:

1. Mrs. Amporn Nitisiri
   Director General, Department of Labour Protection and Welfare.
2. Mr. Arthit Isamo
   Deputy Director General, Department of Labor Protection and Welfare
3. Mr. Chaowarit Tantisak
   Deputy Director General, Department of Labor Protection and Welfare
4. Assoc. Prof. Chalermchai Chaikittiporn
   Mahidol University
5. Director, Occupational Safety and Health Inspection Division
6. Director, National Institute for the Improvement of Working Conditions and Environment (NICE).

Working group:

1. Ms. Roongravee Saereetavan
   Chief, Occupational Health, Safety and Working Environment Committee
2. Mrs. Suwanna Thanapitak
   Expert Labour Officer 7
3. Mrs. Kantima Sooksap
   Labour Officer 5
4. Mrs. Pratumma Koobothong
   Labour Officer