Introduction/Executive Summary

An injury and illness prevention program, is a proactive process to help employers find and fix workplace hazards before workers are hurt. We know these programs can be effective at reducing injuries, illnesses, and fatalities. Many workplaces have already adopted such approaches, for example as part of OSHA’s cooperative programs. Not only do these employers experience dramatic decreases in workplace injuries, but they often report a transformed workplace culture that can lead to higher productivity and quality, reduced turnover, reduced costs, and greater employee satisfaction.

Thirty-four states and many nations around the world already require or encourage employers to implement such programs. The key elements common to all of these programs are management leadership, worker participation, hazard identification and assessment, hazard prevention and control, education and training, and program evaluation and improvement.

Based on the positive experience of employers with existing programs, OSHA believes that injury and illness prevention programs provide the foundation for breakthrough changes in the way employers identify and control hazards, leading to a significantly improved workplace health and safety environment. Adoption of an injury and illness prevention program will result in workers suffering fewer injuries, illnesses and fatalities. In addition, employers will improve their compliance with existing regulations,
and will experience many of the financial benefits of a safer and healthier workplace cited in published studies and reports by individual companies, including significant reductions in workers’ compensation premiums.

**Background**

In the four decades since the *Occupational Safety and Health Act* (OSH Act) was signed into law, workplace deaths and reported occupational injuries have dropped by more than 60 percent. Yet the nation’s workers continue to face an unacceptable number of work-related deaths, injuries and illnesses, most of them preventable:

- Every day, more than 12 workers die on the job – over 4,500 a year.
- Every year, more than 4.1 million workers suffer a serious job-related injury or illness.

An enhanced focus on prevention is needed to bring these numbers down. To accomplish this, an effective, flexible, commonsense tool is available that can dramatically reduce the number and severity of workplace injuries and illnesses: the injury and illness prevention program. This tool helps employers find hazards and fix them before injuries, illnesses or deaths occur. It helps employers meet their obligation under the OSH Act to "furnish to each of his employees employment and a place of employment which are free from recognized hazards that are causing or are likely to cause death or serious physical harm to his employees." It also helps employers avoid the significant costs associated with injuries and illnesses in the workplace.

Injury and illness prevention programs are not new, nor are they untested. Most large companies whose safety and health achievements have been recognized through government or industry awards cite their use of injury and illness prevention programs as their key to success. Convinced of the value, effectiveness, and feasibility of these programs, many countries around the world now require employers to implement and maintain them. These countries include Canada, Australia, all 27 European Union member states, Norway, Hong Kong, Japan and Korea. This initiative also follows the lead of 15 U.S. states that have already implemented regulations requiring such programs.

**How Does an Injury and Illness Prevention Program Work?**

Most successful injury and illness prevention programs include a similar set of commonsense elements that focus on finding all hazards in the workplace and developing a plan for preventing and controlling those hazards. Management leadership and active worker participation are essential to ensuring that all hazards are identified and addressed. Finally, workers need to be trained about how the program works and the program needs to be periodically evaluated to determine whether improvements need to be made.
These basic elements – management leadership, worker participation, hazard identification and assessment, hazard prevention and control, education and training, and program evaluation and improvement – are common to almost all existing health and safety management programs. Each element is important in ensuring the success of the overall program, and the elements are interrelated and interdependent.

When it comes to injury and illness prevention programs, every business is different, and one size certainly does not fit all. Employers who implement injury and illness prevention programs scale and adapt these elements to meet the needs of their organizations, depending on size, industry sector or complexity of operations.

**What Are the Costs of Workplace Injuries, Illnesses and Deaths to Employers, Workers and the Nation?**

The main goal of injury and illness prevention programs is to prevent workplace injuries, illnesses and deaths, the suffering these events cause workers, and the financial hardship they cause both workers and employers.

Workplace incidents cause an enormous amount of physical, financial and emotional hardship for individual workers and their families. Combined with insufficient workers' compensation benefits and inadequate medical insurance, workplace injuries and illnesses can not only cause physical pain and suffering but also loss of employment and wages, burdensome debt, inability to maintain a previous standard of living, loss of home ownership and even bankruptcy. When implemented effectively, injury and illness prevention programs can help workers and their families avoid these disruptive and sometimes calamitous impacts on their lives.

At the same time, these programs will help employers avoid the substantial cost impacts and business disruptions that accompany occupational injuries, illnesses and deaths. One widely-cited source regarding estimates of the magnitude of these costs is the Liberty Mutual Research Institute, which reports the direct cost of the most disabling workplace injuries in 2008 to be $53 billion (Liberty Mutual Research Institute, 2010).2 Another source, the National Academy of Social Insurance (NASI), estimates the annual workers' compensation benefits paid for all compensable injuries and illnesses in 2009 at $58 billion (National Academy of Social Insurance, 2011). NASI further reports the total...
costs paid by employers for workers' compensation increased from $60 billion in 2000 to $74 billion in 2009.

In addition to these direct costs, employers incur a variety of other costs that may be hidden or less obvious when an employee is injured or ill, but in most cases involve real expenditures of budget or time. These expenditures are commonly referred to as *indirect* costs and can include:

- Any wages paid to injured workers for absences not covered by workers' compensation;
- The wage costs related to time lost through work stoppage;
- Administrative time spent by supervisors following injuries;
- Employee training and replacement costs;
- Lost productivity related to new employee learning curves and accommodation of injured employees; and
- Replacement costs of damaged material, machinery and property.

OSHA has historically used the results of one study (Stanford University, 1981) that found the indirect costs can range from 1.1 (for the most severe injuries) to 4.5 (for the least severe injuries) times the direct costs. When workers are killed, are injured or become ill, there are substantial costs beyond those borne by employers. A variety of approaches can be used to estimate these costs. For example, Viscusi and Aldy (2003) provided estimates of the monetary value of each life lost. OSHA updated these estimates (to account for inflation) to 2010 dollars, yielding a value of $8.7 million for each life lost. Multiplying this value by the 4,547 workplace deaths reported by the Bureau of Labor Statistics for 2010, OSHA estimates the annual cost of known workplace fatalities to be nearly $40 billion.
This estimate does not include the cost of non-fatal injuries, or of occupational illnesses like cancer and lung disease. These illnesses generally may occur many years or even decades after workers are exposed and are therefore seldom recorded in government statistics or employer surveillance activities.

The human and economic costs of these conditions are indisputably enormous. Leigh et al. (1997) estimated that more than 60,000 workers die each year from occupational illnesses, and more than 850,000 develop new illnesses annually. Similarly, Steenland et al. (2003) estimated that between 10,000 and 20,000 workers die each year from cancer due to occupational exposures, and between 5,000 and 24,000 die from work-related Chronic Obstructive Pulmonary Disease.

In summary, the number and costs of workplace injuries, illnesses and fatalities are unacceptably high. Injury and illness prevention programs have been proven to help employers and society reduce the personal, financial and societal costs that injuries, illnesses and fatalities impose. As described below, the thousands of workplaces that have implemented these programs in some form have already witnessed the resulting benefits, in the form of higher efficiency, greater worker productivity and lower costs.

**What Is the Evidence that Injury and Illness Prevention Programs Protect Workers and Improve the "Bottom Line"?**

Numerous studies have examined the effectiveness of injury and illness prevention programs at both the establishment and corporate levels (e.g., Alsop and LeCouteur, 1999; Bunn et al., 2001; Conference Board, 2003; Huang et al., 2009; Lewchuk, Robb, and Walters, 1996; Smitha et al., 2001; Torp et al., 2000; Yassi, 1998). This research demonstrates that such programs are effective in transforming workplace culture; leading to reductions in injuries, illnesses and fatalities; lowering workers' compensation and other costs; improving morale and communication; enhancing image and reputation; and improving processes, products and services. The studies also highlight important characteristics of effective programs, including management commitment and leadership, effective employee participation, integration of health and safety with business planning and continuous program
They suggest that programs without these features are not as effective (Shannon et al., 1996, 1997; Gallagher, 2001; Gallagher et al., 2003; Liu et al., 2008).

One study (Smitha et al., 2001) focused on manufacturing facilities in 13 states with mandatory injury and illness prevention programs and/or mandatory health and safety committee requirements. The authors found that both types of regulations were effective in reducing injury and illness incidence rates. Three of the four states with only safety and health program requirements experienced the greatest reductions in injury and illness rates following promulgation of these mandatory program regulations.

OSHA examined the injury and illness prevention programs in eight states where the state had either required a program or provided incentives or requirements through its workers' compensation programs. The successes of these state programs, which lowered injury and illness incidences by 9 percent to more than 60 percent, are discussed below: Source: Huang et al., 2009. Data based on responses from 231 U.S. companies with 100 or more employees.

- **Alaska** had an injury and illness plan requirement for over 20 years (1973 to 1995). Five years after the program was implemented, the net decrease in injuries and illnesses (i.e., the statewide reduction in injuries and illnesses over and above the national decrease during the same time period) for Alaska was 17.4 percent.
- **California** began to require an injury and illness prevention program in 1991. Five years after this requirement began, California had a net decrease in injuries and illnesses of 19 percent.
- **Colorado** has a program that allows firms to adopt basic injury and illness prevention program components in return for a workers' compensation premium reduction. The cumulative annual reduction in accidents was 23 percent and the cumulative reduction in accident costs was between 58 and 62 percent.
- **Hawaii** began to require employers to have injury and illness prevention programs in 1985. The net reduction in injuries and illnesses was 20.7 percent.
- **Massachusetts** Workers' Compensation program firms receive a premium credit for enrolling in a loss management program. In the first year of this program, firms participating in the program had a 20.8 percent improvement in their loss ratios.
- **North Dakota** has a program under its workers' compensation program for employers who have a risk management program. The incentive is a 5 percent discount on annual workers' compensation premiums. These risk management programs contain many of the elements of an injury and illness prevention program. They resulted in a cumulative decline for serious injuries of 38 percent over a four-year period.
- **Texas** had a program under its workers' compensation commission from 1991 to 2005 which identified the most hazardous workplaces. Those employers were required to develop and implement injury and illness prevention programs. The
reduction in injuries, over a four-year period (1992-1995), averaged 63 percent each year.

- **Washington** began requiring establishments to have injury and illness prevention programs in 1973. Five years later the net decrease in injuries and illnesses was 9.4 percent.

OSHA also examined fatality rates and found that California, Hawaii and Washington, with their mandatory injury and illness prevention program requirements, had workplace fatality rates as much as 31 percent below the national average in 2009.

Liu et al. (2008) examined the effectiveness of Pennsylvania's voluntary program that provides workers' compensation premium discounts to employers that establish joint labor-management safety committees. These committees are responsible for implementing several injury and illness prevention program elements: hazard identification, workplace inspection and safety management. The authors found that among program participants there was a strong association between improved injury and illness experience and the level of compliance with the program requirements. This is further evidence that programs with strong management commitment and active worker participation are effective in reducing injury risk, while "paper" programs are, not surprisingly, ineffective.

The literature on injury and illness prevention programs also includes numerous studies that attempt to identify the critical success features associated with superior health and safety performance. Gallagher (2001) concludes that management commitment and employee involvement are the keys to program success: "[R]ecurring findings across these studies were the critical role played by senior managers in successful health and safety management systems, and the importance of effective communication, employee involvement and consultation."

Worker participation, a fundamental element of injury and illness prevention programs, makes an important contribution to an employer's bottom line. When workers are encouraged to offer their ideas and they see their contributions being taken seriously, they tend to be more satisfied and more productive (Huang et al., 2006). Engaging employees in dialogue with management and each other about safety and health can lead to improved relationships and better overall communication, along with reduced...
injury rates. Improved employee morale and satisfaction translates to greater loyalty, lower absenteeism and higher productivity.

This body of research, combined with studies of individual companies (see boxes, below, with Case Studies of Programs Implemented under OSHA’s Voluntary Protection Program (VPP) and Safety and Health Achievement Recognition Program (SHARP)) demonstrate clearly that injury and illness prevention programs are effective at the establishment level in dramatically reducing risk of workplace injury. This effect has also been detected in state-wide comparisons.

Based on its review of the literature on the effectiveness of these programs and on the experience of the states that have implemented injury and illness prevention program requirements, OSHA estimates that implementation of injury and illness prevention programs will reduce injuries by 15 percent to 35 percent for employers who do not now have safety and health programs. At the 15 percent program effectiveness level, this saves $9 billion per year in workers’ compensation costs; at the 35 percent effectiveness level the savings are $23 billion per year. In addition to these workers’ compensation savings, employers could also save indirect costs incurred when an employee is injured or ill. Beyond the monetized benefits of injuries and illnesses averted, and lives saved, nonmonetized costs of workplace injuries and deaths include uncompensated lost wages, the loss of human capital assets, the loss of productivity, the cost of other government benefits required by injured workers or their survivors, the loss of government tax revenues, other business expenses, and other losses not compensated by workers’ compensation or other insurance.

How Widespread are Injury and Illness Prevention Programs?

Employers across the United States have implemented injury and illness prevention programs, and many jurisdictions, in the United States and abroad, currently require or encourage implementation of these programs. Currently, 34 U.S. states have established laws or regulations designed to require or encourage injury and illness prevention programs, including 15 states with mandatory regulations for all or some employers. Other states, while not requiring programs, have created financial incentives for employers to implement injury and illness prevention programs. In some instances this involves providing – or facilitating – workers’ compensation insurance premium reductions for employers who establish programs meeting specified...
requirements. And 16 states, in all three of these groups, provide an array of voluntary guidance, consultation and training programs, and other assistance aimed at helping and encouraging employers to implement injury and illness prevention programs. Depending on the state, these programs apply to all employers, employers above or below a certain size threshold, employers with injury and illness rates above industry average, employers in "high-hazard" industries or employers with above-average workers' compensation experience modification rates.

<table>
<thead>
<tr>
<th>State</th>
<th>Mandatory Regulation</th>
<th>Mandatory Safety Committees</th>
<th>Consulting or Recognition</th>
<th>Insurance Premium Reductions</th>
<th>If mandatory, who is covered?</th>
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<td>Alabama</td>
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<td>&quot;Hazardous&quot; employers small employers</td>
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<td>Employers in construction industry</td>
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<td>Minnesota</td>
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<td>Employers with &gt;25 employees Committees required for</td>
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<td>State</td>
<td>Employers with &gt;5 employees</td>
<td>&quot;Hazardous&quot; employers</td>
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<td>Employers with &gt;25 employees</td>
<td>Employers with payroll &gt;$800K</td>
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States define "hazardous" employers individually, using criteria such as above-average injury incidence rates for their industry or above-average workers' compensation claim experience.

**Source: OSHA Directorate of Standards and Guidance.**

The more than 2,400 establishments that belong to OSHA's Voluntary Protection Program have programs that are based on the same core elements found in the injury and illness prevention program that OSHA will be proposing. The same is true for OSHA’s Safety and Health Achievement Recognition Program, in which more than 1,500 smaller employers are enrolled. Each year, dozens of organizations seeking international recognition for their safety and health program proudly submit applications to the National Safety Council for the Robert W. Campbell award (see text box). Case studies of past winners are available on the Campbell Award website.

**Recognizing Business Excellence in Safety and Health**

The Robert W. Campbell Award recognizes organizations that achieve business excellence by integrating environmental, health and safety (EHS) management into their business operating systems. The Award aims to:

- Recognize businesses that uphold EHS as a key business value and link measurable achievement in EHS performance to productivity and profitability.
- Establish a validated process by which industries can measure the performance of their
EHS operations system against well-tested and internationally accepted key performance indicators.

- Use a rigorous systematic review process to capture and evaluate the successes and lessons learned.
- Share leading edge EHS management systems and best practices for educational purposes worldwide.

The Award program is supported by a network of 22 Global Partners across five continents committed to promoting EHS as an integral component of business management worldwide.

Source: www.campbellaward.org.

There are at least two industry consensus standards for injury and illness prevention programs. The American National Standards Institute (ANSI) and American Industrial Hygiene Association (AIHA) have published a voluntary consensus standard, ANSI/AIHA Z10 – 2005 *Occupational Safety and Health Management Systems* (ANSI/AIHA, 2005). The Occupational Health and Safety Assessment Series (OHSAS) Project Group, a consortium of selected Registrars, national standards bodies, professional associations and research institutes, has produced a similar document, OHSAS 18001 – 2007 *Occupational Health and Safety Management Systems* (OHSAS Project Group, 2007). These consensus-based standards have been widely accepted in the world of commerce and adopted by many businesses on a voluntary basis.

Canada, Australia and all members of the European Union operate programs that either require employers to adopt injury and illness prevention programs, or provide incentives or recognition to those who do so. For example, under the 1989 EU Framework Directive (89/391), EU member countries must have national legislation in place requiring employers to maintain risk identification and prevention programs that are very similar to OSHA's injury and illness prevention program concept (European Union, 1989). U.S. companies operating internationally are familiar with these requirements and have already put in place their own programs to meet these requirements. Finally, many private workers' compensation carriers offer incentives to employers who have injury and illness prevention programs and provide technical assistance to help them implement their programs.
The United States Departments of Defense (DOD) and Energy (DOE) have both adopted this approach for protecting workers employed or stationed at the nation's military installations and nuclear weapons factories, including DOE's high hazard establishments. The success of DOD's program is described in the box below. DOE's program, entitled Integrated Safety Management, includes an expectation that the facilities will "embrace a strong safety culture where safe performance of work and involvement of workers in all aspects of work performance are core values that are deeply, strongly, and consistently held by managers and workers." According to DOE, the aspects of this safety culture that impact safety performance are Leadership, Employee/Worker Involvement and Organizational Learning (DOE, 2011).

Despite the value to employers and workers in terms of injuries prevented and dollars saved, many U.S. workplaces have not yet adopted injury and illness prevention programs. Based on the positive experience of employers with existing programs, OSHA believes that injury and illness prevention programs provide the foundation for breakthrough changes in the way employers identify and control hazards, leading to significantly improved workplace health and safety environments. Adoption of injury and illness prevention program will result in workers suffering fewer injuries, illnesses and fatalities. In addition, employers will improve their compliance with existing regulations, and will experience many of the financial benefits of a safer and healthier workplace described in the literature and in reports by individual companies.

**The Department of Defense Embraces Injury and Illness Prevention Programs**

DOD is committed to keeping workers safe from preventable injuries, and has embraced the safety and health management system approach through its participation in OSHA's Voluntary Protection Programs (VPP). The leaders of our armed forces understand that employees are critical to mission readiness, and recognize the link between lost time injuries and illnesses and lost productivity. The Secretary of Defense has set a goal of reducing preventable injuries by 75 percent from a 2002 baseline, with the ultimate aim of achieving zero injuries. VPP participation has proven a powerful tool in this effort.* The 2009 DOD Safety Perception Survey of Senior Leaders captured many positive comments on VPP Successes. According to the head of the
Defense Safety Oversight Council (DSOC), which manages DOD's VPP Program, DOD saw a lost day rate reduction of 41 percent, from 31.5 per 100 full-time workers in FY 2002 (before any VPP programs were implemented) to 18.7 per 100 workers in FY 2009. DSOC publishes a list of the "Top 40" installations with the highest lost day rates. One installation that ranked among the highest of these dropped to one of the lowest in under two years through implementation of VPP. The chart below illustrates some of the dramatic improvements in service-wide injury and illness rate performance, comparing data from before and after VPP participation.

### VPP Implementation Impacts on Service-Wide Lost Day Rates (per 100 workers)

<table>
<thead>
<tr>
<th></th>
<th>FY 02</th>
<th>FY 09</th>
<th>Rate Reduction</th>
<th>Percent Improvement</th>
</tr>
</thead>
<tbody>
<tr>
<td>All DOD</td>
<td>31.5</td>
<td>18.7</td>
<td>12.8</td>
<td>41%</td>
</tr>
<tr>
<td>Army</td>
<td>29.3</td>
<td>17.8</td>
<td>11.5</td>
<td>39%</td>
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<tr>
<td>Navy</td>
<td>39.8</td>
<td>21.2</td>
<td>18.6</td>
<td>46%</td>
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<tr>
<td>Marines</td>
<td>73.8</td>
<td>36.7</td>
<td>37.1</td>
<td>50%</td>
</tr>
<tr>
<td>Air Force</td>
<td>25.6</td>
<td>16.5</td>
<td>9.1</td>
<td>36%</td>
</tr>
<tr>
<td>Defense Logistics</td>
<td>25.6</td>
<td>16.9</td>
<td>8.7</td>
<td>34%</td>
</tr>
</tbody>
</table>

Source: Angello, 2010.

* As of November 30, 2011 there were 39 DOD sites in VPP and approximately 200 additional sites working towards VPP status (Source: OSHA Directorate of Cooperative and State Programs, 2011).

### Case Studies of Programs Implemented under OSHA's Voluntary Protection Program (VPP)

- Hypotherm is a 900-employee, New Hampshire-based manufacturer of high-tech plasma and laser-cutting tools and machines. The company provides an extensive employee training program that emphasizes health and safety as part of an overall focus on quality. Through this investment the firm's highly skilled, safety-oriented workforce has driven a 25 percent reduction in costly machine crashes and down time, and over a 3-year period (2007-2010), the company's workers' compensation costs have fallen by 90 percent. Hypotherm has consistently been named a "Best Place to Work" in the state of New Hampshire and plans to add 100 positions over the next year.
- Allegheny Energy's LM6000 Group operates three combustion turbine facilities in southwestern Pennsylvania. Facing complaints about the use of arc flash hoods required for certain operations (fogging, visibility), the company asked a group of employees to
investigate alternatives. The employees identified, evaluated and recommended a power ventilated hood, which the company then purchased. In another case, employees were provided time and resources to identify a way to incorporate fall protection in one particular area. The employees found several locations where vertical lifeline systems could be safely installed and used, and a vendor was brought in to assist with the installation. Involving employees and giving them a role in finding solutions has helped Allegheny Energy foster a culture of safety and remain incident-free since the group began operation.

- Pittsburgh-based McConway & Torley has been producing steel castings, rail couplings, and car-connecting systems for the railroad industry since 1868. The company believes it has the best foundry workers in the world, but also realized that its compliance-focused approach to safety was not enough to prevent workers from getting injured. Working with OSHA, the company began filling gaps in its injury and illness prevention program by following the VPP model. During the process of implementing the VPP program at its two foundries, managers and workers discovered that the required high level of employee involvement really made a difference. With top management's full commitment and support, foundry managers and employees work together to proactively resolve safety issues like repetitive motion problems, to improve work practices and to develop job safety analyses. Employees participate in monthly safety audits, facility-wide inspections, accident investigations and self assessments, and are actively involved in conducting safety training. They feel free to submit ideas for safety improvements – and then they help implement those improvements, a degree of empowerment that continues to make a difference in injury reduction and a safer workplace. The impact of the VPP program was powerful: between 2006 and 2010, McConway & Torley was able to reduce workers' compensation cases in its facilities by 79 percent and reduce related direct costs by 90 percent.

Source: OSHA Directorate of Cooperative and State Programs.

Are Injury and Illness Prevention Programs Too Complicated and Expensive for Small Businesses?

For many small businesses, establishing an injury and illness prevention program may seem daunting. Any program based on formal structures can be difficult to establish in a small organization because of tight budgets. Yet simple, low-cost approaches have been shown to be effective in small businesses (Hasle and Limborg, 2006). Injury and illness prevention programs lend themselves to such low-cost approaches because they are highly flexible – the core elements can be implemented at a basic level suitable for the smallest business, as well as at a more advanced, structured level that may be needed in a larger, more complex organization.

OSHA's Safety and Health Achievement Recognition Program (SHARP), which recognizes small employers that operate exemplary injury and illness prevention
programs, provides compelling evidence that such programs can and do work for small businesses. For example, the Ohio Bureau of Workers' Compensation (2011) analyzed the policies of 16 SHARP employers over a 12-year period from 1999 to 2010. The study compared the employers' experience prior to and after achieving entry into the SHARP program. The preliminary results of the study show that the average number of claims for these employers decreased by 52 percent, the average claim cost decreased by 80 percent, the average lost time per claim decreased by 87 percent, and claims (per million dollars of payroll) decreased by 88 percent.

An internal OSHA study of nine SHARP firms, ranging in size from 15 to 160 employees, found that the firms achieved the following as a result of their programs:

- A reduction in the number of injuries and illnesses.
- Improved compliance with regulatory requirements.
- Improved business and cost savings including reduced workers' compensation premiums, reduced administrative and human resources burden associated with filing injury and illness reports, managing workers' compensation cases and training new employees. The companies also experienced improved efficiency in operations and material use, and improved productivity. They were able to leverage their limited health and safety resources.
- An improved workplace environment with greater collective responsibility for workplace health and safety.
- Improved reputation and image in the community including relationships and cooperation between employers and OSHA, between employers and employees, and among employers in the business community.

Small Business Program Example: Anthony Forestry Products

Anthony Forestry Products is a fourth generation, family-owned lumber and wood products company. Its laminated wood products plant in El Dorado, Arkansas employs a staff of 80. The company initiated efforts to improve its safety practices and, in 2001, began working with OSHA's On-Site Consultation Program on a voluntary basis to put in place a working safety and health management system. By 2002, the site was accepted into the SHARP. As a result of this work, the company's workers' compensation loss rate (in losses per $1,000 of payroll) decreased from $18.20 in 1998 to $0.30 in 2007.
Conclusions

- Despite the combined efforts of employers, workers, unions, safety professionals and regulators, more than 4,500 workers lose their lives and more than four million are seriously injured each year. Tens of thousands more die or are incapacitated because of occupational illnesses including many types of cancer and lung disease. The human toll from this loss is incalculable and the economic toll is enormous.
- Many employers in the U.S. have been slow to adopt a workplace "safety culture" that emphasizes planning and carrying out work in the safest way possible.
- Injury and illness prevention programs are based on proven managerial concepts that have been widely used in industry to bring about improvements in quality,
environment and safety, and health performance. Effective injury and illness prevention programs emphasize top-level ownership of the program, participation by employees, and a "find and fix" approach to workplace hazards.

- Injury and illness prevention programs need not be resource-intensive and can be adapted to meet the needs of any size organization.

OSHA believes that adoption of injury and illness prevention programs based on simple, sound, proven principles will help millions of U.S. businesses improve their compliance with existing laws and regulations, decrease the incidence of workplace injuries and illnesses, reduce costs (including significant reductions in workers' compensation premiums) and enhance their overall business operations.

References


Conference Board. (2003). Driving toward "0": Best practices in corporate safety and health.


Footnotes:

Footnote 1: The occupational safety and health community uses various names to describe systematic approaches to reducing injuries and illnesses in the workplace. Consensus and international standards use the term Occupational Health and Safety Management Systems; OSHA currently uses the term Injury and Illness Prevention Programs and others use Safety and Health Programs to describe these types of systems. Regardless of the title, they all systematically address workplace safety and health hazards on an ongoing basis to reduce the extent and severity of work-related injuries and illnesses.

Footnote 2: The "most disabling" injuries are defined by Liberty Mutual as those causing the injured employee to miss six or more days from work.


Footnote 4: If injury and illness prevention programs achieve a 15 percent reduction in injuries and illnesses for employers who do not currently have safety and health programs, the overall reduction in injuries and illnesses for all employers including those that already have programs is estimated at 12.4 percent. Applying this 12.4 percent to NASI's estimate of the $74 billion in direct workers' compensation costs in 2009, workers' compensation savings could be as high as $9 billion per year. With a 35 percent program effectiveness, the overall reduction in injuries and illnesses for all employers is estimated at 30.8 percent and workers' compensation savings could reach $23 billion per year.