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Occupational Health and Safety

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Occupational health and safety risk management

Occupational health and safety risk management is a crucial aspect of maintaining workplace safety and ensuring compliance with [health and safety regulations](#). One of the most effective frameworks for managing workplace risks is the PDCA cycle (Plan-Do-Check-Act), a continuous improvement model designed to help organizations systematically identify, control, and mitigate risks to create a safer and more compliant working environment. The PDCA cycle is particularly valuable when introducing a new health and safety management system, delivering new processes or services, or implementing significant organizational changes. For best results, it is important to repeat the cycle multiple times, ensuring constant evaluation and refinement of safety measures.

The PDCA cycle consists of four key, reiterative steps that allow businesses to manage occupational risks in a structured, proactive, and continuous manner. Each phase plays an essential role in mitigating hazards, reducing accidents, and enhancing overall workplace safety. The first step in the cycle is **Plan**, where businesses identify and assess workplace risks. This process begins with [hazard identification](#), which involves looking for potential dangers in the workplace, such as exposed electrical wiring, hazardous chemicals, or unsafe machinery. Methods like workplace inspections, job safety analyses, and incident investigations are used to detect these hazards.

Once hazards are identified, businesses assess the associated risks by analysing their severity, likelihood of occurrence, and frequency of exposure. For example, a company might identify a machine in the factory that poses a risk of injury to workers, such as a lack of proper guarding on moving parts. The risk assessment would evaluate the likelihood of injury, the severity of potential harm, and the frequency with which workers come into contact with the machine.

In addition to risk analysis, [compliance with legal and regulatory requirements](#) is a crucial element of the **Plan** phase. For instance, in South Africa, businesses must adhere to the [Occupational Health and Safety Act 85 of 1993](#) (OHS Act), which sets out specific guidelines for workplace safety. A well-structured risk management plan should set clear objectives for risk mitigation, assign responsibilities to relevant personnel, and establish timelines for implementing control measures. Control strategies could include eliminating hazards where possible, substituting safer alternatives, implementing engineering controls, enforcing administrative policies, and ensuring that personal protective equipment (PPE) is available for employees. For example, a construction company might replace a hazardous material with a safer alternative and implement engineering controls like machine guarding to prevent injury.

The second step of the PDCA cycle is **Do**, which focuses on implementing the risk control measures that were developed during the **Plan** phase. This phase is critical because it translates safety policies from theory into practice. Implementation includes providing employees with training on workplace hazards, safe work procedures, and the proper use of PPE. For instance, employees in a chemical plant should receive training on handling hazardous substances, proper storage procedures, and the correct use of safety equipment like respirators or gloves. Regular refresher training should be conducted to ensure workers remain competent and up to date with safety protocols.

In addition to training, the **Do** phase also involves putting engineering and administrative controls in place to manage risks. Engineering controls could include installing safety barriers around dangerous machinery or ensuring adequate ventilation in areas where employees are exposed to harmful fumes. Administrative controls might involve scheduling workers in shifts to limit their exposure to hazardous conditions or restricting access to high-risk areas. Emergency preparedness is also an essential part of the **Do** phase. For example, conducting [regular fire drills](#) and [first-aid training](#) ensures that employees are prepared to handle emergency situations and respond quickly and effectively to minimize harm.

The **Check** phase is about [monitoring and evaluating the effectiveness](#) of the implemented control measures. Regular workplace inspections and audits are necessary to identify potential gaps in the system. For example, a company might [conduct monthly inspections](#) of machinery to ensure that safety guards are functioning correctly and that employees are adhering to safety protocols. Feedback from employees is crucial in identifying any concerns or unsafe conditions that may have been overlooked. For example, a worker may report a malfunctioning safety feature that was not detected during the initial inspections.

Incident and accident reports must be thoroughly reviewed to identify recurring patterns or common causes of accidents. For instance, if there have been several slip-and-fall incidents in a specific area of the warehouse, this could indicate a need for better floor maintenance or better signage to warn of potential hazards. The **Check** phase also involves [assessing compliance with both legal and internal safety standards](#) to ensure that the organization's safety measures align with industry best practices and regulatory requirements.

The final step in the PDCA cycle is **Act**, which involves taking corrective and preventive actions based on the insights gained from the **Check** phase. The **Act** phase focuses on refining safety measures and processes to ensure continuous improvement. If safety issues are identified, such as a persistent hazard or an ineffective safety procedure, corrective actions should be taken immediately. For example, if [an audit](#) reveals that certain safety equipment is outdated or insufficient, the company should invest in better protective gear for its employees. Regularly updating safety policies and procedures ensures that businesses remain compliant with changing laws and industry standards.

[Training programs](#) should also be reinforced based on the findings of audits or incidents. For example, if a recent workplace injury was caused by improper use of a machine, additional training and awareness campaigns should be implemented to ensure employees understand the risks and proper operating procedures. Encouraging employee involvement in safety committees and open discussions helps build a proactive safety culture. By continuously improving risk management practices, organizations minimize hazards, enhance workplace safety, and maintain compliance with health and safety regulations.

The benefits of using the PDCA cycle in occupational Health and safety risk management are significant. The cycle promotes a proactive approach that helps prevent accidents and incidents by addressing hazards before they cause harm. For instance, by regularly assessing risks and implementing safety measures, a company can avoid costly accidents, reduce workers' compensation claims, and improve overall productivity. The cycle also ensures that businesses remain in compliance with occupational health and safety laws and regulations, thereby avoiding legal penalties and reputational damage. Continuous improvement is another advantage, as the cycle encourages businesses to constantly evaluate and enhance their safety practices. Finally, employee engagement is fostered by involving workers in the risk management process, promoting a culture of safety awareness, accountability, and collaboration.

Occupational health and safety risk management is an ongoing process that requires dedication, systematic application, and continuous improvement. The PDCA cycle provides a structured and effective framework for identifying, controlling, and improving workplace safety measures. By integrating the PDCA model into their risk management strategies, businesses can create a safer, more legally compliant, and productive work environment for all employees. The cycle's iterative nature ensures that businesses can adapt to evolving risks and regulatory changes, further enhancing their overall safety culture.

Occupational risk management is a continuous journey; through the PDCA cycle, businesses proactively protect their workforce and foster a culture of safety and improvement.

Should you require further assistance or advice feel free to email us on info@topcompliance.co.za

Yours in Health and Safety

Occupational health and safety auditing and consulting			Online safety shop
			
First aid equipment	Signage	Legal posters	Safety Equipment

Courses offered by Top Compliance (Pty) Ltd

ONLINE ACADEMY - https://academy.topcompliance.co.za/		
Occupational Health and Safety Courses	Online	Onsite Excluding travel
Safety representative – Legal Liability	R980.00	R1300.00
The Occupational Health and Safety Act & responsibilities of management – Legal Liability	R1250.00	R 1730.00
Hazard Identification and Risk Assessment	R735.00	R875.00
Food facility health & safety course in terms of R638	R735.00	R875.00
Basic Ladder Safety Course	R735.00	R810.00
Fire Fighting and Prevention Courses		
Fire Marshal - Basic firefighting	R735.00	R875.00
Fire & Evacuation marshal - Basic firefighting with emergency action planning	R810.00	R950.00

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ONSITE TRAINING	
First Aid Courses:	
Level 1 - US 119567 - Perform basic life support and first aid procedures	2 days

Level 2 - US 120496 - Provide risk-based primary emergency care/first aid in the workplace	3 days
Level 3 - US 376480 - Provide first aid as an advanced first responder	3 days
Level 1 & 2 - US 119567 & 120496	3 days
Level 1, 2 & 3 - US 119567, 120496 & 376480	5 days
Level 2 & 3 - US 120496 & 376480	3 days
Child and infant CPR & choking	6 hours
Adult CPR & choking	6 hours
Adult CPR & choking and AED	1 day
Occupational Health and Safety Courses	
Safety representative – Legal Liability	1 day
The Occupational Health and Safety Act & responsibilities of management – Legal Liability	1 day
Hazard Identification and Risk Assessment	1 day
Food facility health & safety course in terms of R638	6 hours
Basic Ladder Safety	6 hours
Fire Fighting and Prevention Courses	
Fire Marshal - Basic firefighting	6 hours
Fire & Evacuation marshal - Basic firefighting with emergency action planning	1 day