

The Effect of Occupational Health and Safety Management on Engineering Work Environment

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Occupational Health & Safety

Definition:

Means by which to control aspects of work production that involve any degree of risk or danger that may cause injury or harm.

This Process eliminates such elements to ensure employee safety and health.

The flow scheme of activities within the framework of BOHS The BOHS cycle follows the conventional action model: identification of needs -> assessment of problems —> management of actions —> evaluation of effect —> revision of the programme. The various steps indicated in Figure have a dual target: the work environment-oriented activities (outside the action cycle) or the worker-oriented activities (inside the action cycle), and often both simultaneously. It is important to see BOHS as a functional process instead of a number of separate actions.



Occupational Health and Safety Management System Model



Annex SL).

The PDCA cycle can be applied to the OH&S management system and to each of its individual elements, as follows:

- Plan determine and assess OH&S risks, OH&S opportunities and other risks and other opportunities taking into account issues identified in clause 4, establish OH&S objectives and processes necessary to deliver results in accordance with the organisation's OH&S policy;
- Do implement the processes as planned;
- Check monitor and measure activities and processes with regard to the OH&S policy and objectives, and report the results;
- Act take actions to continually improve OH&S performance to achieve the intended outcomes
 of the OH&S management system.



What are the major differences between OHSAS 18001(2007) and ISO 45001(2018)?

The main difference between the two standards is ISO 45001 takes a

proactive approach that requires hazard risks to be evaluated and

remedied before they cause accidents and injuries, while OHSAS 18001

takes a reactive approach that focuses solely on risks and not solutions.





Why work in a safe and healthy manner?

- Think of the possible hazards in an engineering workshop.
- Working with heavy tools
- Operating machinery
- Contact with hazardous substances
- Noisy machinery

For All Employees

The Reasons for OH & S:

- Eliminates possible danger
- Safeguard employee productivity
- Means to promote workplace processes
- Protect employee rights
- Maintain worker health

Why is it important?

1. Result in temporary or permanent injury, illness or even death

2. They also take a toll in reduced efficiency and loss of productivity

Occupational health and safety graphic Safety statement



How accidents occurred?

1. Poor working conditions

2. The use of improperly designed equipment and tools

3. Fatigue

4. Lack of skill

5. Risk taking



Our Safety Procedures

- Written Instructions in OH&S Manual
- Regular Inspections by Safety Representatives
- Informal: Employee Observation
- In accord with legal regulations

Education and training for health and safety managers

- Job of health and safety managers is more complex and diverse due to advancement of technology and new rules and regulations.
- Due to which the importance of Education and training has been increased.
- Formal education is important for providing foundation of related knowledge.
- In-service trainings are more effective for this purpose.

Engineers and Safety

Engineer has a very important role in health and safety issues and has more effect on health and safety than other persons.

- The most careless employee can't cause a fraction of problems caused by a careless engineer.
- Engineers ability of good and bad appears during design process.
- ✤ Not all but some engineers are design engineers.

Safety Engineer

- ✤ A vast title in workplace
- It implies the person filling the position of degreed engineer because of formal education.
- The title also given sometime to safety managers.
- For this title, safety related formal education is needed not engineering.
- Industrial engineers are best as a safety engineer.







Fundamentals of Occupational SAFETY and HEALTH

Government Institutes

Fourth Edition

Mark A. Friend and James P. Kohn



SAFETY AND HEALTH FOR ENGINEERS Third Edition ROGER L. BRAUER





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