

# Occupational Safety and Health for Technologists, Engineers, and Managers: The Essential Guide to Protecting Yourself and Others in the Workplace

Occupational safety and health (OSH) is the field of study concerned with the safety, health, and welfare of people at work. It encompasses a wide range of topics, including hazard identification, risk assessment, and control measures. OSH is essential for protecting workers from injuries, illnesses, and deaths that can occur in the workplace.



## Occupational Safety and Health for Technologists, Engineers, and Managers (2-downloads) (What's New in Trades & Technology) by David L. Goetsch

★★★★☆ 4.6 out of 5

Language : English

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Print length : 752 pages

X-Ray for textbooks : Enabled



This book is a comprehensive guide to OSH for technologists, engineers, and managers. It covers all aspects of OSH, from hazard identification to risk assessment to control measures. It also provides practical guidance on how to create and implement a safety and health program that meets the needs of your organization.

## **Hazard Identification**

The first step in protecting workers from hazards is to identify them. Hazards can be physical, chemical, biological, or ergonomic. Physical hazards include things like falls, slips, and trips; chemical hazards include things like exposure to toxic chemicals; biological hazards include things like exposure to bacteria and viruses; and ergonomic hazards include things like repetitive motions and awkward postures.

There are a number of different ways to identify hazards in the workplace. One way is to conduct a hazard assessment. A hazard assessment is a systematic examination of the workplace to identify potential hazards. Another way to identify hazards is to talk to workers. Workers are often the best source of information about hazards in the workplace because they are the ones who are exposed to them on a daily basis.

## **Risk Assessment**

Once you have identified the hazards in the workplace, you need to assess the risks associated with them. Risk assessment is the process of determining the likelihood that a hazard will cause harm and the severity of the harm that could occur.

There are a number of different factors to consider when assessing risk, including the following:

- \* The nature of the hazard
- \* The frequency and duration of exposure to the hazard
- \* The number of people exposed to the hazard
- \* The potential for the hazard to cause harm

## **Control Measures**

Once you have assessed the risks associated with the hazards in the workplace, you need to develop and implement control measures to reduce or eliminate those risks. Control measures can be either engineering controls or administrative controls.

Engineering controls are physical changes to the workplace that reduce or eliminate hazards. Examples of engineering controls include machine guards, ventilation systems, and noise-canceling headphones.

Administrative controls are changes to work practices or procedures that reduce or eliminate hazards. Examples of administrative controls include training programs, job rotation, and work permits.

## **Safety and Health Programs**

A safety and health program is a set of policies and procedures that are designed to protect workers from injuries, illnesses, and deaths. A good safety and health program will include the following elements:

- \* A hazard identification and risk assessment program
- \* A control measures program
- \* A training program
- \* A medical surveillance program
- \* An emergency response plan

Occupational safety and health is essential for protecting workers from injuries, illnesses, and deaths. This book provides a comprehensive guide to OSH for technologists, engineers, and managers. It covers all aspects of OSH, from hazard identification to risk assessment to control measures. It also provides practical guidance on how to create and implement a safety and health program that meets the needs of your organization.

By following the principles outlined in this book, you can help to create a safe and healthy workplace for yourself and your employees.



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