



Vital Role of Ergonomics in Occupational Health

Clive Souti*

Department of Systems and Industrial Engineering, University of Arizona, Arizona, USA

*Corresponding author: Clive Souti, Department of Systems and Industrial Engineering, University of Arizona, Arizona, USA; E-mail: clivesouti@gmail.com

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Description

Ergonomics is the study of how humans interact with their environment and how to optimize these interactions to improve comfort, safety, and productivity. In the workplace, ergonomics is essential for the health and well-being of workers [1-3]. It is important to recognize the role of ergonomics in occupational health and safety and to understand how it can be used to improve the work environment.

The goal of ergonomics is to create a work environment that is safe, comfortable, and efficient. This involves designing workstations and tools that fit the needs of the worker and minimize the risk of injury or discomfort. Ergonomics is also concerned with the design of work processes and procedures to reduce the physical and mental strain on workers.

Ergonomics can help prevent workplace injuries and illnesses. For example, repetitive motion injuries such as carpal tunnel syndrome can be prevented by designing workstations that reduce the strain on the hands and wrists [4,5]. Back injuries can be prevented by designing workstations that promote good posture and reduce the risk of strain. In addition, ergonomic design can help prevent eye strain and other vision-related problems by optimizing lighting and display settings.

Ergonomics is also essential for the mental health and well-being of workers. Work-related stress and mental health problems are a growing concern in many workplaces. Ergonomic design can help reduce stress and promote mental well-being by optimizing work processes, reducing workload, and promoting healthy work-life balance [6-8]. The importance of ergonomics in occupational health is reflected in the regulations and standards set by government agencies and industry groups, requires employers to provide a safe and healthy work environment for their employees. This includes ensuring that workstations and tools are ergonomically designed to prevent injury

and discomfort. Similarly, the European Agency for Safety and Health at Work (EU-OSHA) promotes the importance of ergonomic design in preventing workplace injuries and illnesses [9].

Employers have a responsibility to ensure that their workplaces are ergonomically designed to promote the health and well-being of their workers [10]. This includes providing training and education to workers on ergonomic principles and ensuring that all workstations and tools are designed with ergonomics in mind. Employers should also regularly evaluate their work processes to identify areas where ergonomic design can be improved.

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