

A/ASSESSMENT RECAP

- The assignment requires students to work in groups to create and present a **hazard and risk assessment poster**.
- **Key objectives:** Build skills in **identifying hazards and risks**, planning **solutions**, applying appropriate models, and developing **communication**, creative **presentation**, **persuasive skills**, and **teamwork** capacity.
- The assignment involves forming a **hazard and risk assessment poster** to **examine hazards** associated with a particular job, providing a description of the work, **identifying workplace health and safety (WHS)** hazards and risks using body and **risk mapping tools**, and applying a **risk analysis matrix**.
- **The final deliverable:** a **15-minute in-class presentation** explaining the poster, focusing on how visual tools like body and risk maps assist in understanding safety and health issues.

B/KEYWORDS DEFINITION

1. **Ergonomic hazard:** Risks related to the design of a workplace, equipment, or process that contribute to discomfort or injury, often due to repetitive tasks, poor posture, or poor equipment design.
2. **Biological hazard:** Involves exposure to harmful biological substances, like bacteria, viruses, or fungi, which can cause illness or infection.
3. **Chemical hazard:** The potential for a chemical substance to cause harm or injury, including burns, poisoning, or long-term health effects like cancer.
4. **Hierarchy of controls:** A systematic approach to managing safety by applying multiple layers of defense against a hazard, from most effective (elimination of the hazard) to least effective (personal protective equipment).
5. **Personal protective equipment (PPE):** Equipment worn by employees to minimize exposure to hazards that cause serious workplace injuries and illnesses.
6. **Substitution isolation:** Replacing a hazardous material or process with a less hazardous one to reduce risk.
7. **Administrative controls:** Strategies to reduce or eliminate worker exposure to hazards, primarily through changes in management policies or procedures.

- 8. Risk assessment:** The process of identifying, evaluating, and estimating the levels of risk involved in a situation, followed by coordinating and planning resources to minimize, monitor, and control the impact of unfortunate events.
- 9. Physical hazard:** A factor within the environment that can harm the body without necessarily touching it, like radiation, exposure to sunlight, temperature extremes.
- 10. Slips, trips, and falls:** Common workplace hazards referring to instances where a person may slip on a wet floor, trip over an object, or fall due to uneven surfaces or other risks.
- 11. Repetitive task injury:** Injuries caused by performing the same motion over and over again, leading to strain and long-term musculoskeletal disorders.
- 12. Engineering controls:** Physical changes to the workplace, which can include modifications to tools, equipment, machinery, materials, or the work environment to reduce hazards.
- 13. Fire hazards:** Any material, situation, or condition that can cause a fire.
- 14. Noise pollution:** Harmful or annoying levels of noise, as from airplanes, industry, etc., which can be a hazard in some work environments.

LIST OF ABBREVIATION

MSDS	Material Safety Data Sheets
OSHA	Occupational Safety and Health Administration
NIOSH	National Institute for Occupational Safety and Health
PPE	Personal Protective Equipment

C/REFERENCES

★ General Sources on Workplace Safety and Health

1. Occupational Safety and Health Administration (OSHA) Website
 - a. [OSHA Official Website](#)
 - b. Provides a wealth of information on workplace safety standards, guidelines, and training resources.
2. National Institute for Occupational Safety and Health (NIOSH)
 - a. [NIOSH Official Website](#)
 - b. Offers research and insights into various occupational health risks and prevention strategies.
3. World Health Organization (WHO) - Occupational Health
 - a. [WHO Occupational Health](#)

- b. Provides global perspectives on workplace health and safety.
- 4. European Agency for Safety and Health at Work (EU-OSHA)
 - a. [EU-OSHA Official Website](#)
 - b. Offers extensive resources on workplace safety in different sectors, including case studies and risk assessment tools.

★ **Specific Topics and Tools**

- 5. Ergonomics and Repetitive Strain Injuries
 - a. “Ergonomics for Beginners: A Quick Reference Guide” by Jan Dul and Bernard Weerdmeester.
 - b. Useful for understanding ergonomic hazards and prevention methods.
- 6. Risk Assessment and Management
 - a. “Risk Assessment Tools, Techniques, and Their Applications” by Lee T. Ostrom and Cheryl A. Wilhelmsen.
 - b. Provides comprehensive coverage of various risk assessment tools and methodologies.
- 7. Workplace Safety and Health Management
 - a. “Introduction to Health and Safety at Work” by Phil Hughes and Ed Ferrett.
 - b. A guide covering the essentials of health and safety management in the workplace.
- 8. Online Risk Assessment Tools
 - a. [OSHA eTools and Electronic Products for Compliance](#)
 - b. Interactive, web-based training tools on occupational safety and health topics.
- 9. Hazard Mapping Manuals and Guides
 - a. OSHA Hazard Mapping Manual ([Link to Manual](#))
 - b. A guide to developing hazard maps for educational and training purposes.
- 10. Hierarchy of Controls
 - a. “Managing Workplace Risks and the Hierarchy of Control” ([Pro Choice Safety Gear Article](#))
 - b. Provides a practical understanding of applying the hierarchy of controls in risk management.