

First name :
Last name:

Institute of Science and Technology
Process Engineering
Health, Safety & Environment

Health, Safety & Environment Final Exam

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- Something dangerous and likely to cause damage
a) Acceptable risk b) Risk c) Hazard
- Risk is determined by Severity divided by Likelihood.
a) True b) False c) Maybe
- The risk assessment process can be divided into three determined steps, the first step is:
a) Risk analysis b) Hazard identification c) Risk evaluation
- Chemical hazards include Solvents, adhesives, paints, and toxic dusts.
a) True b) False c) Not sure
- Ergonomic risk factors include noise, radiation, heat, etc.
a) True b) False c) Not sure
- Physical hazards include heavy lifting, repetitive motions, and vibration
a) True b) False c) Not sure
- Biological hazards include infectious diseases
a) True b) False c) Not sure
- Before handling hazardous material, people must carefully read and make themselves familiar with the MSDS for safe and secure handling. MSDS means:
a) Material storage data stream b) Material storage datasheet c) Material safety data sheet
- To calculate risk level (RL) in the risk matrix tool, the right formula is:
a) $RL = \text{probability} / \text{impact}$ b) $RL = \text{probability} + \text{impact}$ c) $RL = \text{probability} \times \text{impact}$

10. A cause and effect diagram, often called a (.....), can help in brainstorming to identify possible causes of a problem and in sorting ideas into useful categories.
 a) Bowtie model b) Fishbone diagram c) Tree of causes
11. The hierarchy of controls is a method of identifying and ranking safeguards to protect workers from hazards. They are arranged from (... ..).
 a) the least to most effective b) the most to least effective c) the easiest to achieve
12. The third control method in the hierarchy of controls is :
 a) Substitution b) Engineering controls c) Administrative controls
13. PPE refers to protective clothing for the eyes, head, ears, hands, respiratory system, body, and feet in the work environment. PPE means :
 a) personal protective Element b) personal protective equipment c) personal protective environment
14. One of the most important hygiene processes in the Food Industry is C.I.P and its means :
 a) Clean In Place b) Clean Into Package c) Close In Part
15. PDCA (plan-do-check-act) is a repetitive four-stage model for continuous improvement in business process management. The PDCA model is also known as: (... ..)
 a) Ishikawa diagram b) risk management c) the Deming cycle
16. "Any addition of erroneous substances or energies to the environment, that causes a change to the composition of the environment" is :
 a) Environmental issues b) Environmental degradation c) Environmental pollution
17. For medical waste, one of the most commonly used treatment activities may include :
 a) Incineration b) Recycling c) Composting
18. (.....) is a concept that promotes meeting the needs of the present without compromising the ability of future generations to meet their own needs.
 a) Sustainable economy b) Environmental sustainability c) Sustainable development
19. In the hierarchy of controls, the first control method is elimination and it means :
 a) Replace the hazard b) Physically remove the hazard c) Change the way people work
- Over time, risks may arise from modifications to workstations and procedures, deterioration of tools or equipment, failure to perform maintenance, or a drop in housekeeping standards.
 To identify shortcomings so that they can be addressed before an incident occurs.
20. a) Identify hazards b) Conduct incident investigations c) regularly inspect the workplace for hazards