

CRSP

Examination Preparation Knowledge Gap Analysis Questions & Answers Workbook

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Health and Safety Management (HSM)

Case Study

On a bright sunny day, a company was shipping some class 3 dangerous goods to one of their customers in another province. At approximately 2:00 pm the driver was involved in an accident and some of the product was reported to be leaking.

1. During this accidental release of a dangerous good, the person responsible for reporting is:
 - a. The person who shipped the product before the spill
 - b. The person who was supposed to receive the product after the spill
 - c. The driver
 - d. The manufacturer of the product
2. The Transportation of Dangerous Goods Act class 3 for dangerous goods is:
 - a. Gases
 - b. Flammable liquids
 - c. Explosives
 - d. Corrosives

Case Study

An investigation of a warehouse at ABC Company found a number of dangerous goods improperly labeled and marked. Some of the vehicles used to transport these dangerous goods did not have the proper placards or other information required under the Transportation of Dangerous Goods Act.

3. In the Transportation of Dangerous Goods Act, a reference to labels describes:
 - a. Shipping and technical names and is required for each package, freight container and transport vehicle
 - b. Labels on packages and or containers
 - c. Large signs used to identify transport vehicles
 - d. Damage to containers
4. In the Transportation of Dangerous Goods Act, a reference to placards describes:
 - a. Shipping and technical names and is required for each package, freight container and transport vehicle
 - b. Labels on packages and or containers
 - c. Large signs used to identify transport vehicles
 - d. Damage to containers

Hazard and Risks: Identification and Assessment (HRIA)

Case Study

XYZ Company has had a fire that nearly wiped out the plant. Your manager has asked you to develop a comprehensive fire safety plan to help address some of the deficiencies that were noted by the investigators.

1. One of the first steps in developing a fire safety plan includes:
 - a. Meets local fire regulations and all other legal requirements
 - b. Includes an evacuation plan for disabled persons
 - c. Must be approved by the federal fire authority
 - d. The establishment of objectives for life safety, property conservation and business continuity
2. Special consideration must be given to this when developing a company's fire safety management plan:
 - a. By-products of a fire
 - b. Flames
 - c. Storage of fuels and materials
 - d. Location of fire fighting equipment

Case Study

A job involves lifting boxes that weigh 11 kg. At the origin of the lift $H = 30\text{cm}$, $V = 40\text{cm}$, and $D = 100\text{cm}$. The boxes are lifted at the rate of 6 per minute for 1 to 2 hours per shift. There is no angle of asymmetry and the coupling is rated as good. Using the 1991 Revised NIOSH Lifting Equation, determine the following:

3. What is the recommended weight limit (RWL)?
 - a. 7.75 kg
 - b. 7.5 kg
 - c. 5.7 kg
 - d. 10.8 kg
4. What is the lifting index (LI)?
 - a. 1.5
 - b. 1.75
 - c. 2.21
 - d. 1.05
5. Workstations are redesigned so that lifting at the origin occurs at $H = 25\text{ cm}$, $V = 50\text{cm}$, and $D = 40\text{cm}$. What is the new LI?
 - a. 2.45
 - b. 1.05
 - c. 1.6
 - d. 1.1

Case Study

An air sampling study was conducted in a research laboratory environment. The contaminant was boron trifluoride and readings were taken at 15 minute intervals over a short period of time. The results in mg/m^3 were recorded as (in order of reading) 1.13, 1.21, 1.02, 0.93, 2.21, 2.06, 2.91, 2.01, 1.32, 3.01, 2.91, 1.17, 0.86.

10. What is the arithmetic mean of these readings?

- a. 2.01
- b. 1.75
- c. 1.76
- d. 1.57

11. What is the median?

- a. 0.88
- b. 1.21
- c. 2.91
- d. 1.32

Case Study

A worker in a plastics plant has the following exposure to chlorine during a shift:

- 2 hours at 0.5 ppm
- 1 hour at 0.3 ppm
- 3 hours at 1.0 ppm
- 2 hours at 0.2 ppm

12. What is the 8 hour TWA?

- a. 0.59 ppm
- b. 1.25 ppm
- c. 0.45 ppm
- d. 2.5 ppm

13. If chlorine has a TLV-TWA of 0.5 ppm, is the worker overexposed?

- a. Yes, 5 times the TLV
- b. No, just under the TLV
- c. Yes, slightly over 2 times the TLV
- d. Yes, just over the TLV

Hazard and Risks: Identification and Assessment (HRIA)

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90	A	B	C	D

Management Sciences (MS)

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