



ICM

JUNE 2018

WORKING PRACTICES, HAZARDS & CONTROLS

Instructions to candidates:

- a) Time allowed: Three hours (plus an extra ten minutes' reading time at the start – do not write anything during this time)
 - b) Answer any FIVE questions
 - c) All questions carry equal marks. Marks for each question are shown in []
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- 1. Your organisation is involved with the storage and distribution of industrial cleaning products in liquid form that are classed as both flammable and toxic.
 - a) Give a brief description of the types of emergencies that could occur in your premises, regarding the storage of the flammable and toxic substances and explain what you would consider when developing emergency procedures. [10]
 - b) Explain the importance of manufacturers' Safety Data Sheets with regard to storage and transportation of the materials. [10]
 - 2.
 - a) Identify FOUR types of personal protective equipment that could be used in the protection against hazardous substances. [4]
 - b) Identify SIX of the principles regarding the safe use and controls of personal protective equipment (PPE). [6]
 - c) Identify and give a brief description of the TWO categories of respiratory protective equipment (RPE). [4]
 - d) List six pieces of information required when selecting suitable respiratory protective equipment (RPE). [6]
 - 3. Your organisation has highlighted a few minor incidents involving visitors and members of the public straying into busy areas of the warehouse and several reported near misses in a designated car park within the goods yard that is shared by employees and visitors.
 - a) Identify FOUR possible reasons why visitors, whether authorised or not, are often more at risk than employees. [4]
 - b) Give FOUR examples of how these problems with visitors can be overcome. [4]
 - c) Describe the controls that would help minimise incidents occurring in the goods yard/car park area. [8]
 - d) Identify what controls could be in place for the safety of the work's vehicle itself. [4]
 - 4. Your maintenance department has requested the purchase of a bench-mounted circular saw.
 - a) List SIX of the many hazards that could be associated with this equipment. [6]
 - b) Identify SEVEN safeguards and controls that could be applied to ensure the safe use of equipment. [14]
 - 5. Cranes may be either a jib crane or an overhead gantry travelling crane.
 - a) Outline EIGHT safety requirements that apply to all types of crane. [8]
 - b) Identify SIX basic principles that are required from the driver to ensure a safe lift. [6]
 - c) Identify and explain THREE safety points to be considered to ensure the safe use of a mobile jib crane. [6]
 - 6.
 - a) Identify EIGHT hazards associated with working in excavations and trenches. [8]
 - b) You have installed a trench box with safe access and exit. Identify and explain SIX additional precautions and controls that should be applied to ensure the safety of the workers in the excavation. [12]

continued overleaf

7. Falls from ladders caused 37 deaths in the UK in 2015/16. In addition, they also accounted for 5,956 non-fatal injuries over the 12 month period to 31 March 2016.
- a) Identify the TWO common materials used in the construction of ladders, highlighting at least ONE advantage or disadvantage associated with EACH type of ladder. [4]
 - b) Describe the conditions and situations where working from a ladder should **not** be attempted. [6]
 - c) List FIVE factors that should be included when training employees how to use ladders safely. [10]
8. Your company has experienced an unusually high number of short-term absenteeism in the administration department and have tasked you with a review of the display screen equipment (DSE) and workstation risk assessment.
- a) Outline SIX factors that need to be considered in a DSE risk assessment. [12]
 - b) Explain FOUR possible causes that could trigger psychological problems. [8]