



ICM

MARCH 2016

WORKING ENVIRONMENT & OCCUPATIONAL HEALTH

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. A manager has been asked to assess the requirements of road safety and driving for the company.
 - a) Accidents to the company are costly. Explain the benefits of managing road safety. [12]
 - b) Some drivers must drive abroad. Outline the legislation requirements for complying with hours of work and rest periods for driving. [8]
 2. Electricity and electrical systems, although efficient and convenient, are a potentially hazardous method of transmitting and using energy.
 - a) Which legislation covers electricity? [2]
 - b) Discuss why maintenance is important to electrical systems. [10]
 - c) Outline why regular inspection of electrical equipment is important. [8]
 3. The risk factors that can lead to the onset of work related musculoskeletal problems are caused by repetitive actions over a long duration, the application of significant force and unnatural postures.
 - a) Define the term '**manual handling**'. [3]
 - b) Describe some of the injuries caused by manual handling. [8]
 - c) Identify the topics that should be covered in a manual handling training session. [9]
 4. Welfare encourages a healthy workplace. State the legislation that covers welfare facilities and briefly summarise the welfare arrangements that have to be provided. [20]
 5. Asbestos is a hazardous substance and must be controlled.
 - a) State the TWO legislations that cover asbestos in the workplace and its removal from site. [4]
 - b) Explain what should happen if someone is accidentally exposed to asbestos on a work site. [6]
 - c) Discuss briefly how an employer should dispose of asbestos. [10]
 6. Outline the problems that an employer could encounter with employees abusing drugs, both recreational and prescribed, and the action that could be taken to prevent this. [20]
 7. The risk of developing Hand-Arm Vibration Syndrome (HAVS) depends on the frequency of vibration and the length of exposure.
 - a) Manufacturers must declare the vibration emission values for some machines and tools. Discuss why these valuations may be incorrect. [10]
 - b) Explain the measures that should be taken to reduce the risks associated with HAVS. [10]
 8. Health hazards and health surveillance has to be managed by organisations.
 - a) Identify some of the health hazards that might be encountered on a construction site. [6]
 - b) Outline TWO effects on health that hazardous substances can have. [4]
 - c) Explain what measures a company can take in assessing exposure and health surveillance. [10]