



# ICM

SEPTEMBER 2017

## 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 [ ]
- 
1. You are an employer and the landlord of premises that uses gas and manufactures gas appliances. There are various situations applying to you with regard to gas and gas safety.
    - a) As you are manufacturing new gas appliances, consider the regulations you must adhere to and what the regulations say the new gas appliances must do. [10]
    - b) Give details of who you should get to check the gas systems on your premises. [6]
    - c) Carbon monoxide is dangerous to human health. Describe TWO of the most common occurrences of carbon monoxide gas and their causes. [4]
  2. As a senior manager, you have been alerted to various health problems in your employees that have been caused by welding in the workshop.
    - a) Outline some of the possible illnesses that could be caused by welding. [10]
    - b) Consider some of the types of welding you could be using in the workshop. [4]
    - c) Assess the THREE principal routes of entry any substance could have into the human body. [6]
  3. As a manager, you have to ensure that employees are given adequate awareness training when dealing with asbestos. Under the Control of Asbestos Regulations, what subjects should be covered to ensure that employees are given adequate information and instruction? [20]
  4. Assess the importance of the suitability of a lighting system within a workplace. What factors need to be considered to ensure that lighting is adequate? [20]
  5. Employees are driving machinery such as forklift trucks and tractors over rough terrain or uneven surfaces; this may cause whole-body vibration (WBV). As an employer, you must carry out certain checks.
    - a) Discuss the factors that employers could use in a checklist to establish if their employees are exposed to WBV. [16]
    - b) Explain why employees could be experiencing back pain associated with WBV. [4]
  6. Electricity within the workplace has the potential to be hazardous and can be a cause of fatal accidents. As a manager, you have a duty to control the hazards.
    - a) State the abilities, experience and technical knowledge a competent electrical person should have. [10]
    - b) List the hazards associated with electricity. [4]
    - c) A piece of equipment needs isolating from the electrical source. Identify what needs to be done to ensure the equipment is isolated from the electrical source. [6]
  7. As the director of a company, you have to control occupational health hazards and ensure there are management of health surveillance schemes.
    - a) Outline what measures your company can take in assessing exposure and health surveillance. [10]
    - b) Explain TWO effects on health that a hazardous substance can have. [4]
    - c) List some of the health hazards that your employees might encounter on a client's construction site. [6]

*continued overleaf*

8. Employers occasionally encounter employees who abuse drugs, both recreational and prescribed, which could have a serious effect on health and safety within the organisation.
- a) Discuss the problems that drug abuse could cause in the workplace, both on an employee level and company level. [8]
  - b) Outline what action employers could take to prevent this becoming a problem. [12]