



## BSC Level 6 Diploma in Occupational Safety and Health

### Unit 2 Examination

Tuesday 16 February 2010

2.00pm – 4.30pm

#### INSTRUCTIONS TO CANDIDATES

Do not open this booklet until the invigilator tells you to do so.

You are allowed **2 hours 30 minutes** to complete this examination.

There are ten questions in this paper each worth 10 marks (100 marks).

**Answer ALL questions.** The questions may be answered in any order.

Marks for part questions are shown in square brackets.

Your answers should include reference to relevant legislation and examples from the workplace wherever appropriate.

Write your answers in the answer booklet provided using a black or blue pen.

You may make notes on this question paper, in the answer booklet or on separate sheets of paper, but any notes you make must be handed in at the end of the examination.

- 1 A review of health records has identified an increase in dermatitis among engineers exposed to metal working fluids in a manufacturing company.
- Identify** the professionals that could offer advice and **describe** the practical support they could offer to solve this problem. [10]
- 2 a) **Outline** the main sources of health and safety information available when completing a risk assessment of chemicals used in the workplace. [5]
- b) In relation to the Control of Substances Hazardous to Health Regulations 2002, **explain** the term 'adequate control'. [5]
- 3 a) With reference to examples, **explain the differences** between 'total inhalable' and 'respirable' dust. [4]
- b) **Describe** how the risks associated with respirable silica can be prevented or minimised. [6]
- 4 Your company has introduced a new rota that includes a regular 12-hour night shift. There is reported evidence that near misses and lost-time accident rates have increased.
- a) **Explain** why the new rota may be contributing to rising accident rates. [4]
- b) **Describe** the options available to manage and control the hazards of shift work. [6]
- 5 **Describe** the duties set out in the Health and Safety (Display Screen Equipment) Regulations 1992 (as amended). [10]
- 6 For each of the following types of non-ionising radiation, **identify** an occupational source and **outline** an ill-health effect associated with exposure.
- i) Ultra-violet [2]
  - ii) Infra-red [2]
  - iii) Microwaves [2]
  - iv) Lasers [2]
  - v) Radio frequency [2]

7 **Outline** the sources, pathways and receptors that could exist for biological hazards encountered in **EITHER** a hospital laboratory **OR** an animal livestock farm. [10]

8 A noise survey has revealed personal exposures in a large wood working shop in excess of 95  $L_{EP,d}$ .

**Describe** the methods available to reduce noise and noise exposures to less than 85  $L_{EP,d}$ . [10]

9 **Describe** the ergonomic features of a modern control room (such as that seen in Figure 1) and **explain** how these prevent or reduce the ill-health effects associated with poor design.



Figure 1 A modern control room [10]

10 a) **Outline** the risk factors associated with occupational stress. [5]

b) **Describe** the physical and psychological effects of occupational stress. [5]

