



BSC Level 6 Diploma in Occupational Safety and Health

Unit 1 Examination

Specimen paper

INSTRUCTIONS TO CANDIDATES

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

You are allowed **THREE HOURS** to complete this examination.

There are two sections to this paper.

Section A has one question worth a total of 40 marks.

You are advised to spend no more than **ONE HOUR** on Section A.

Section B has eight questions each worth 10 marks (total 80 marks).

You are advised to spend no more than **TWO HOURS** on Section B.

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 resource booklet, 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.

Section A

Question 1 (Refer to the Resource Booklet)

- (a) (i) **Outline** the main health and safety risks and the potential injury or harm to people. [5]
- (ii) **Outline** the main legal breaches that could apply. [5]
- (b) (i) With reference to suitable management system frameworks (e.g. HSG65 / OHSAS 18001), **outline** the policy and organisational issues that will need to be reviewed when considering improvements. [5]
- (ii) **Outline** the possible safety culture failures that could have led to this situation. [5]
- (c) **Describe and justify** suitable controls to minimise the risk of an incident occurring. (Your answer should include reference to premises, plant and substances, procedures and people). [10]
- (d) **Develop** a management action plan based on current and future risks. (Your plan should include clear recommendations, priorities and timescales). [10]

[Total 40 marks]

Section B

- 2 (a) **Outline** the 'hierarchical approach' to machinery safety as set out in the Provision and Use of Work Equipment Regulations 1998. [4]
- (b) **Outline** the basic operational features of:
- (i) interlocked guards; [2]
- (ii) electrosensitive protective equipment (trip) devices; [2]
- (iii) fixed guards. [2]
- 3 You are the Principal Contractor for a large construction site on which there is extensive use of mobile plant and equipment. **Describe** the steps you would take to manage the transport risks at this site. [10]

4 A farmer is about to clear a blockage in a large silo containing partially composted grain (Figure 1).

(a) **Outline** the main hazards associated with this activity.

[4]



Figure 1

(b) **Outline** how the confined space risks in this scenario can be prevented or controlled.

[6]

5 (a) You are the facilities manager for a large modern office. **Outline** your legal responsibilities to ensure slip, trip and fall risks are properly addressed.

[4]

(b) **Outline** how the following hazards can be managed:

(i) spillage of wet substances;

[2]

(ii) rubbish and debris;

[2]

(iii) rugs and mats.

[2]

- 6 (a) **Outline** the steps you would take to assess the suitability of safety footwear for use in a steel foundry. [5]
- (b) **Outline** the steps you would take to assess the suitability of face and eye protection for use when electric arc welding. [5]
- 7 A large chemical works has experienced a major explosion with human failure identified as a root cause. **Describe** the job, individual and organisational factors that may have contributed to this accident. [10]
- 8 (a) With reference to examples, **explain** the circumstances in which a regulator may make use of a
- (i) formal caution [2]
- (ii) prohibition notice [2]
- (b) Your company has just received an improvement notice. **Outline** the procedure for instigating an appeal and provide examples of how the appeal may be upheld. [6]
- 9 (a) **Describe** the main stages in conducting a fire risk assessment for **EITHER** an office/shop premises **OR** a factory/warehouse. [6]
- (b) **Outline** the types of fire to which the following classes apply:
- (i) Class B
- (ii) Class C
- (iii) Class D
- (iv) Class F [4]

[Total 80 marks]