

Design & Technology

AQA A-Level

Safe working practices

Materials required for questions

- Pencil
- Rubber
- Calculator

Instructions

- Use black ink or ball-point pen
- Try answer all questions
- Use the space provided to answer questions
- Calculators can be used if necessary
- For the multiple choice questions, circle your answer

Advice

- Marks for each question are in brackets
- Read each question fully
- Try to answer every question
- Don't spend too much time on one question

Good luck!

Q1. What is the primary purpose of the Health and Safety at Work Act (1974)?

- A** To ensure products are manufactured quickly
- B** To provide legal obligations for employers and employees to maintain safety
- C** To reduce the cost of manufacturing processes

Q2. Under COSHH regulations, what is the main focus?

- A** Controlling exposure to hazardous substances
- B** Ensuring machinery is electrically safe
- C** Providing first aid training for all staff

Q3. What is a safe working practice in a school workshop when using machinery?

- A** Working alone to avoid distractions
- B** Tying back long hair and securing loose clothing
- C** Using damaged tools if no alternatives are available

Q4. What does a risk assessment typically involve?

- A** Eliminating all risks regardless of practicality
- B** Increasing production speed to meet deadlines
- C** Identifying hazards and implementing measures to minimise risks

Q5. Describe the purpose of risk assessment in a manufacturing environment
(6 marks)

Q6. Explain the safe work practices necessary to protect workers when using
solvent adhesives **(6 marks)**

Answers

Q1. B

Q2. A

Q3. B

Q4. C

Q5.

- To identify both the likely frequency and potential of harm, injury or risk measured.
- To identify when activities or actions that are deemed too risky, or where the severity of injury is great. Ensures that they are either removed, or an increased level of scrutiny is adhered to in order to provide a safer working environment.
- To identify specific PPE that a worker may need to be equipped with for a specific activity.
- To ensure that the manufacturing company is fulfilling its obligation and duty of care for employees.
- To help employers identify and minimise risk to the workforce.
- To provide guidance for all employees to help reduce accidents or injuries.
- To ensure that annual reassessments take place and new guidance or directives are implemented.
- To ensure that all new staff are properly trained and aware of the manufacturer's H&S safety policy and guidance.
- To ensure that all employees, from cleaning and maintenance staff, machine operators and office workers are all aware of any dangers or risks that may occur.

Q6.

- Users should be aware of the COSHH guidance that governs their use, storage and disposal.
- Users must store the adhesive in a COSHH cupboard when not in use.
- The adhesive may be irritant to skin so correct PPE should be worn eg gloves.
- The adhesive may be a liquid so correct PPE such as goggles should be worn.
- Vapours that can be released can be highly flammable so no naked flames should be present when using the adhesive.

- Users must ensure that instructions have been read and guidance is followed.
- Vapours can be released therefore the adhesive should be used in a well ventilated area.
- Users must identify and understand the COSHH symbol present which will both govern its use and disposal.