

2 6 Health and Safety

Preparation

- Read pages 74 - 79

Resources

- Workshop access

Key Points

- Health and Safety at Work Act 1974
 - Do all that is reasonably practicable
- Personal protective equipment
- Signage
- Warning symbols
- Risk assessments
- Using computers
 - Repetitive strain injury
- Workshop procedures
- COSHH

Wider study

- Table 2 20 Hazards and types of personal equipment
- Table 2 21 Standard health and safety signage
- Table 2 22 Part of a risk assessment for using a computer
- Table 2 23 Part of a risk assessment for using a pillar drill
- Table 2 24 Health and Safety Executive (HSE) guidance on COSHH regulations
- Table 2 25 Part of a risk assessment for storage and use of solvent-based adhesives
- Health and Safety Commission <http://www.hse.gov.uk>
- COSHH regulations <http://www.coshh-essentials.org.uk>

Assignments in the school workshop

- What PPE is required for
 - Strip heater?
 - Polishing machine?
 - Wood turning lathe?
 - Casting?
- Find and note uses of the various signs in table 2 21
- Complete a risk assessment for the pillar drill
- Investigate the COSHH regulations for acrylic cement

Homework

- As above

Revision questions

None available

Specification and Learning Objectives

The principles and applications of the Health and Safety at Work Act (1974) when designing and manufacturing graphic products and commercial packaging:

- procedures to safeguard the risk of injury to people:
 - personal and protective equipment (PPE)
 - signage
 - warning symbols
- carrying out risk assessments in accordance with the Health and Safety Executive (HSE) for the design of graphic products using computers and manufacture of models and prototypes using workshop practices:
 - identify potential hazards
 - identify people at risk
 - evaluate the risks
 - decide upon control measures
 - record assessment
- Control of Substances Hazardous to Health (COSHH) regulations:
 - risk assessment to control the storage and use of solvent-based substances containing volatile organic compounds (VOCs).