## AQA Design & Technology: Product Design

## 3.1 Technical principles **3.1.9 Health & Safety**

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1. Safe Working Practices				
Safe work practices are generally written methods outlining how to perform a task with minimum risk to people, equipment, materials, environment, and processes.				
1	Health And Safety At Work Act (1974)	This act places wide-ranging duties on employers. Employers must protect the 'health, safety and welfare' at work of all their employees, as well as others on their premises, including temps, casual workers, the self-employed, clients, visitors and the general public.	This act requires employers to provide: adequate lighting, heating, ventilation and workspace (and keep them in a clean condition); staff facilities, including toilets, washing facilities and refreshment; and. safe passageways, i.e. to prevent slipping and tripping hazards.	
2	Control Of Substances Hazardous To Health (COSHH)	COSHH is the law that requires employers to control substances that are hazardous to health.	You can prevent or reduce workers exposure to hazardous substances by:  Finding out what the health hazards are.  Deciding how to prevent harm to health.  Providing control measures to reduce harm to health.  Making sure they are used.  Keeping all control measures in good working order;  Providing information, instruction and training for employees and others;	
3	Risk Assessment	A risk assessment is about identifying sensible measures to control the risks in the workplace.		
4	Safety Precautions That Should Be Taken When;	<ul> <li>Drilling;</li> <li>Never make any adjustments while the machine is operating.</li> <li>Never clean away chips with your hand. Use a brush.</li> <li>Keep all loose clothing away from turning tools.</li> <li>Make sure that the cutting tools are running straight before starting the operation.</li> <li>Never place tools or equipment on the drilling tables.</li> <li>Keep all guards in place while operating.</li> <li>Remove all chuck keys and wrenches before operating.</li> <li>Always wear eye protection while operating any drilling machines</li> </ul>		Using a Hegner Saw:  ☐ You should always use safety glasses and keep loose clothing or hair safely out of the way.  ☐ You should keep a firm hold on the wood, but keep your fingers a safe distance from the blade.  ☐ When you have finished using the saw you should leave it clean and tidy, waste wood should be put in a bin, not left on the floor where it might cause a trip hazard.
5	Safe Working Practices And Identifying Potential Hazards	Lack of guards or screens on equipment or around dangerous areas.  Lack of adequate ventilation and temperature.  No safety signs, outdated safety signs, and broken safety signs.  Machinery left unattended while in use.  Obstructions – of fire exits, cut out switches, etc.  Cluttered workstations.  Trailing wires and cables.  Incorrect tools used for tasks.  Electric shocks, burns, or fires.		<ul> <li>Keep the workshop tidy and avoid tripping hazards such as trailing cables.</li> <li>Noise levels from plant are controlled.</li> <li>Hand tools are in good condition and suitable for the job;</li> <li>PPE is provided – eye protection, respiratory protection for work that creates dust, if extraction cannot be provided; or foot protection if there is a risk of things falling onto the feet.</li> </ul>



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## 2. Safety In Products And Services To The Customer A safe product is one that provides either no risk or a minimum acceptable level of risk, taking into account the normal or reasonably foreseeable use of the product and the need to maintain a high level of protection for consumers. The Consumer Rights Act replaces three major pieces of legislation: This law covers: Consumer Rights Act ☐ What should happen when **qoods** are **faulty**; (2015)The Sale of Goods Act The Supply of Goods and Services Act ☐ What should happen when digital content is faulty; Unfair Terms in Consumer Contracts Regulations ☐ How services should match up to what has been agreed, and what should happen when they do not, or when they are not provided with reasonable care and skill; ☐ Unfair terms in a contract: Sale of Goods Act 1979 ☐ What happens when a business is acting in a way which isn't competitive; Sales Of Goods Act (1979) The Sale of Goods Act 1979 requires goods to be as described, of satisfactory quality and fit for purpose. 2 Fit for purpose means both for their everyday purpose, and also any specific purpose that you agreed with the seller (for example, if you specifically asked for a printer that would be compatible with your computer) The British Standards BSI Group, also known as the British Standards Institution, is the 3 The Kitemark is a UK product and service quality trade mark which is owned and operated by The British Institute (BSI) national standards body of the United Kingdom. BSI produces technical standards on a wide range of products and services and Standards Institution. The Kitemark is most frequently also supplies certification and standards-related services to used to identify products where safety is paramount, such as crash helmets, smoke alarms or household plugs. businesses. CE marking is a certification mark that indicates Product Testing - Lion Mark The Lion Mark is a British consumer symbol developed in 1988 by British Toy & Hobby Association and used to identify toys denoted conformity with health, safety, and environmental protection standards for products sold within the as safe and of high quality. European Economic Area. Advice To Consumers: Manufacturers and importers placing products on the UK market Corrective action, recalls and safety incidents ♦ Manufacturer's Businesses that make, import, distribute or sell consumer products need to demonstrate that they comply with relevant safety requirements. This basically involves: in the UK are all responsible for their safety. Instructions ♦ Safety Warnings ☐ Minimising the risks associated with the product For example, if a manufacturer discovers that a product it has sold ♦ Aftercare Advice ☐ Generating and keeping records of associated technical represents a safety risk, it must take action to remedy the issue. This could include issuing new instructions, modifying the product, or documentation ☐ Placing appropriate labelling on the product requiring consumers to stop using the product and return it for a refund. The manufacturer must contact all the consumers it knows ☐ Providing instructions on how to use it safely are affected to alert them to the issue and tell them what they

should do.