



TASK: Types of tools

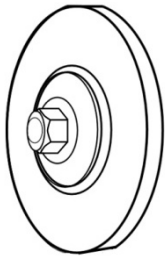
Your trainer may ask you to complete this task as an assessment exercise. You may either answer the questions in writing, or record your own voice in an audio file.

Question 1: Hand tools

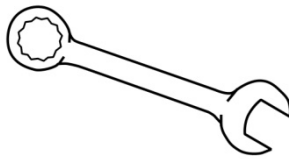
Shifting spanners and multigrips are found in just about every tool kit, because they're so adaptable and convenient to use. But neither of them is the best tool for any particular job, because in every case there are precision tools available just for that purpose.

Below are two examples of jobs, each with two choices of tools. State which tool is the correct one to use to do the job properly. Then give two reasons why the other tool would not be the best choice. That is, what problems could occur, particularly if you had to do that task over and over again?

Example 1: Doing up or undoing the retaining nut on a grinding wheel



Choice of tools:



Combination spanner



Shifting spanner

(a) Which tool is the correct one to use?

(b) Give two reasons why the other tool is not the best choice.

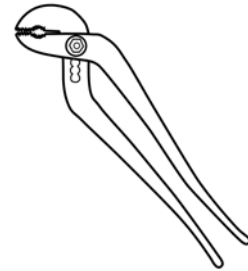
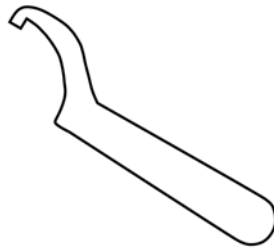
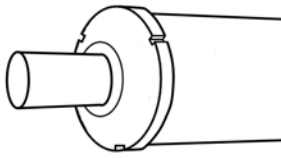
(i)

(ii)

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Example 2: Doing up or undoing the slotted nut (circular clamp) on a bearing



Choice of tools:

'C' spanner

Multigrips

(a) Which tool is the correct one to use?

(b) Give two reasons why the other tool is not the best choice.

(i)

(ii)

Question 2: Power tools

Choose two power tools from your workplace that both have the same function but are powered by different energy sources. For example, you may have two drills – one running on mains electricity and the other on batteries. You might even have a drill that's driven by compressed air.

Fill in the following details in the table below:

1. **Type of tool:** state the category of power tool your two selections come from, e.g. circular saw, drill, planer, etc.
2. **Power source:** name the power source that drives each of the tools, e.g. mains electricity, compressed air, rechargeable battery (cordless), etc.
3. **Manufacturer:** state the maker (brand name) of each tool

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4. **Size:** describe the size of the tools in terms of their drill bit diameter, blade diameter, nail length, etc
5. **Power rating:** state the power ratings in terms of wattage, operating pressure, etc.
6. **Main advantages:** list the main advantages of each tool, particularly in comparison to the other tool you have selected.
7. **Main disadvantages:** list the main disadvantages, again with particular reference to the other tool.

To get yourself started on the advantages and disadvantages, evaluate the two tools in terms of the following criteria: safety, convenience, portability, overall life expectancy, strength of the tool. Add any other points that you think are relevant.

Type of tool –		
	Power tool 1	Power tool 2
Power source		
Manufacturer		
Size		
Power rating		
Main advantages		
Main disadvantages		

Sign-off

Name	Signature	Date