**MIG 103 Power Transmission Rig**

Make a sketch of the assembly.

Make a note of any spare parts you think you may need.

What PPE did you require for this task?

What risks were there, and what action did you take prior to completing the job to mitigate them (this means to reduce the risks).

Make a detailed list of the steps that you took to dismantle and reassemble the equipment.

How did you ensure that any parts could be re-assembled in the correct orientation?

Make a list of the types of power transmission on the rig.

For each type of power transmission comment on their ‘pros and cons’.

Describe the steps you would take to align the shafts and pulleys for the ‘V’ belt drive.

Why is it important that the shafts and pulleys are aligned properly?

What are the ‘rules of thumb’ regarding the tension of chains and drive belts?

What are the consequences of low/high tension in a chain or drive belt?

How are drive belts tensioned?

Research a method of ensuring a drive chain is automatically tensioned, and briefly describe it.

Describe how you measured the pitch of the drive chain, and comment on why the pitch might change over time?

Why is it important to inspect the drive sprocket when changing the chain due to wear?

What type of bearings are used, and how are they lubricated?