

RECORD OF INSPECTION FOR SPLIT-CASE CENTRIFUGAL PUMP EXAMINATION

You are required to produce **full separate reports** for one of the double suction centrifugal pumps. You must start by producing a method statement covering all aspects of the work, this will include details of all the equipment and tools you intend to use and the **storage** of components during the inspections.

You also need to produce a meaningful risk assessment that cover all the work where you will consider all the hazards that you may encounter opening up the units and any lifting requirements. If you have any areas of uncertainty they must be discussed with the T.O. and statement must be included in the risk assessment controls measures stating this.

Areas where the inspection reports needs close detail will be recording the bearing condition (both radial and axial) type of impellor including any damage and wear ring clearance if applicable. Explain and record the shaft setup, (not overhung) and record any run-out after checking the rotating element on the knife edges. When rebuilding the pumps, comment on the anti rotation mechanism for the wear rings and use **sketches and photographs** to highlight areas of significance.

The general information you need to gather for your report must include all of the following areas:-

- Title & date.
- Your name & group number.
- The type of pump.
- Materials of construction.
- Detail any areas of damage or wear, including bearing lift and end float.
- When rebuilding ensure the glands and mechanical seals are replaced correctly.
- Finally again you **must include** sketches and photos taken at different stages of the inspection as required for the report.