

MJP-2025-064 - Maintenance Job Plan

Equipment Details

Name: Horizontal Centrifugal Pump

Model: HCP-1234

Serial: SN78901

Scope of Work

Perform routine maintenance on the Horizontal Centrifugal Pump, including inspection, cleaning, lubrication, and replacement of worn parts as required.

Job Steps

Step 1

Mechanic: Isolate the pump from the process by closing the suction and discharge valves. Lock out and tag out the pump motor following the safety procedures. Estimated duration: 1 hour.

Step 2

Mechanic: Drain the pump casing. Remove the pump casing cover. Estimated duration: 2 hours.

Step 3

Mechanic: Inspect the pump impeller and casing for signs of wear or damage. If replacement is necessary, replace with new parts. Lubricate the pump bearings. Reassemble the pump. Estimated duration: 3 hours.

Step 4

Electrician: Perform a megger test on the pump motor. If necessary, schedule motor for further testing or replacement. Estimated duration: 2 hours.

Tools & Materials

Tools Required:

- Lockout/Tagout Kit
- Wrench Set
- Impeller Puller
- Megger

Materials Required:

- Replacement Impeller
- Replacement Bearings
- Lubricant

Manpower

Count: 2

Skills: Mechanic Level II, Electrician Level II

Estimated Time: 8 hours

Safety Requirements

PPE:

- Safety Glasses
- Steel Toe Boots
- Insulated Gloves
- Lockout/Tagout Devices

Safety Procedures:

- Lockout/Tagout Procedure
- Electrical Safety Procedure

Potential Hazards:

- Electrical Shock
- Heavy Lifting

Best Practices

Follow manufacturer's maintenance manual and procedures. Ensure all safety procedures are followed.

Recommendations

Manuals:

- HCP-1234 Maintenance Manual
- HCP-1234 Parts Manual

Procedures:

- Pump Maintenance Procedure
- Electrical Safety Procedure

Applicable Codes & Standards

- ANSI/ASME B73.1
- NFPA 70E