

Workplace Requirements

- Compile material / component list from engineering drawings and existing installations
- Marking off and manufacturing flanges and couplings including filing, sawing, drilling, tapping, reaming
- Maintain, diagnose and repair lubrication systems; force-feed, splash-feed and gravity -feed
- Manufacture and replace keys and key ways: gib-head, parallel, taper, feather, woodruff and tangential
- Remove and install locking devices - lock-nuts, dowels, lock-plates, split pins, taper pins and wire method.
- Mount, align and fault finding couplings: flexible tyre, rigid flange, bibby tyre, internal gear coupling
- Remove and fit bearings: solid, split and guide, ball, roller, spherical, thrust, taper, cylindrical.
- Pack bearings
- Maintain and replace drives - belt, gear, fluid and chain
- Maintain and repair assemblies; gearboxes, base plates and mountings, alignment, pumps, brakes and clutches
- Maintain and repair Hydraulic and pneumatic components and systems

Workshop Equipment

- Shielded metal arc welding AC / DC machine
- Gas cutting, Heating and Welding Equipment
- Fixed and portable drilling machines
- Fixed and portable grinding machines
- Grinding wheel dresser
- Mechanical / Hydraulic Press
- Drill bits
- Lifting equipment and tackle
- Arm / Band power saw
- Bench vice
- Work bench
- G-clamps
- Spirit level
- Vernier height gauge
- Machine level
- Telescopic Gauge
- Double dial set indicator
- Belt tensioner
- Threat cutter (Inside an outside)
- Bearing puller
- Oil bath and or induction heater

Hand Tools

- | | |
|--------------------------------|--------------------------------------|
| • Tool Box | • Flange square |
| • Chisels | • Pipe cutter |
| • Punches | • Vernier: depth, inside and outside |
| • Tommy bar | • Micrometer: outside, Pliers |
| • Thread gauge | • Socket set |
| • Feeler gauge | • Wrenches (Flat / Rings) |
| • Steel tape | • Hand Files |
| • Steel ruler | • Engineering square |
| • Hammer | |
| • Clips | |
| • Callipers (Inside / Outside) | |
| • Hacksaw | |
| • Shifting Spanner | |
| • Scriber | |
| • Screw drivers | |
| • Bevel Gauge | |
| • Combination square | |
| • Dividers | |
| • Pliers | |
| • Vice Grip | |

