

Job Responsibility - Maintenance

- Replace an S AE straight thread O-ring
- Tighten a 37° JIC flare fitting
- Tube flaring
- Make up a tube assembly
- Install a brazed O-ring face sealing fitting (ORS)
- Install a four bolt flange fitting
- Align hoses and fittings
- Make up a crimped hose assembly
- Inspect a hydraulic cylinder for external leaks
- Inspect a cylinder for binding
- Check rod seals and packings for wear
- Adjust a hydraulic packing gland
- Inspect directional control valves for external leaks
- Inspect pumps and motors for leaks
- Set the pressure on a relief valve
- Charge a hydro-pneumatic accumulator
- Verify the condition of hydraulic fluid
- Add hydraulic fluid to the reservoir
- Check the condition of hydraulic filters
- Replace hydraulic filter elements
- Test petroleum fluid for water
- Check the reservoir for silt buildup
- Draw a fluid sample from the reservoir
- Draw a fluid sample from a pressure line
- Examine hydraulic fluid for contamination
- Drain, flush, and refill a system

Job Responsibility - Field Repairs

- Replace a hose assembly
- Verify operating pressure with a gauge
- Verify relief valve setting
- Replace a hydraulic cylinder
- Check cylinder alignment and mounting
- Check directional control valve solenoids

Job Responsibility - Shop Repairs

- Replace a hydraulic pump unit
- Hydrostatic System Start-up
- Replace a directional control stack or module valve
- Mount a pump and align the coupling
- Replace a hydraulic motor unit
- Replace a pressure relief valve
- Install an overhaul kit in a hydraulic cylinder
- Set fixed displacement pump load sensing valve
- Set variable displacement pump compensator pressure

Job Responsibility - Troubleshooting

- Determine why a cylinder will not extend
- Determine the cause of no, low, or high pressure
- Identify components in a circuit diagram
- Determine why a cylinder fails to hold the load
- Determine why system operation is erratic
- Determine the cause of excessive heat
- Determine the cause of no flow, low flow, or high flow
- Determine the cause of excessive noise
- Determine the cause of excessive vibration
- Determine cylinder rod and barrel damage
- Verify system operating cycle times
- Determine cylinder bypass leakage
- Determine the cause of pump vibration
- Determine why a hydraulic cylinder binds
- Isolate solenoid control valve failure
- Verify hydraulic check valve installation and assembly
- Isolate problems using circuit diagrams
- Troubleshoot hydrostatic transmissions
- Troubleshoot a proportional directional control valve