

## Rules for hydraulic trainer operation

The hydraulic trainer is designed with the student's safety in mind.

The maximum, non-adjustable operating pressure limit is 725PSI (50bar). Incorrect assembly or improper valve usage will not jeopardize either the student or the equipment. For personal safety we do, however, expect that everyone will comply with the following regulations.

- Eye protection must be worn when working with the hydraulic trainer
- Make sure the trainer is readily accessible and has working clearance on all sides.
- Ensure that you know how and where the trainer can be shut off in case of an emergency.  
STOP push button interrupts the supply of oil to one side of the stand.  
E-STOP palm button stops both pumps and interrupts the supply of oil to the complete stand
- Ensure that all adjacent equipment is protected from oil spills.
- Observe cleanliness, wash hands frequently, and clean up oil drips!  
Some oils can be harmful if introduced to the eyes or mouth. Additionally there is a risk of injury from slipping on oil spills.
- Ensure that all hoses are correctly coupled before starting the trainer (rotate coupling to check)
- Ensure that there is a proper bend radius on the hose and that it is not under undue stress.
- Do not remove any quick disconnect fittings from either the hoses or their subplates without first consulting with your instructor.
- Never tamper with someone else's circuit.
- Only the group working on the trainer has the authority to start the pump.
- Use shop rags or wipers to catch any small amount of oil lost when breaking a quick disconnect coupling.
- Be sure to bleed down system pressure before disconnecting any hoses. Although it is not dangerous to disconnect a pressurized line, it does make re-connection difficult.
- Should any leakage occur, immediately shut off the hydraulic unit. Never attempt to cover up a leak with your hand or a shop rag. High pressure oil can easily be injected under your skin causing serious consequences.
- Never work on a circuit (connect hoses, tighten fittings, or remove valves from subplates) without first shutting off the power unit.

# Hydraulic schematic

