Pipe Rig Exercise

Task: To plan, construct, inspect, test and safely dismantle pipe rig

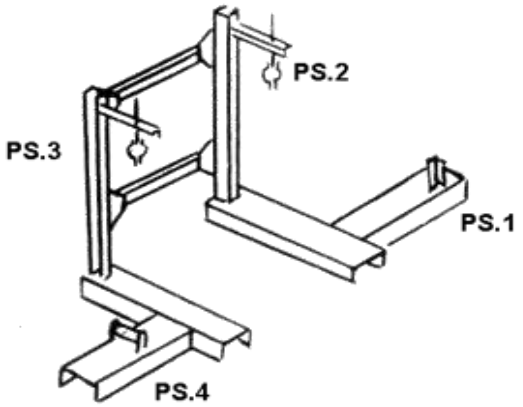
Using line diagram provided and underpinning knowledge gained from the pipe fitting course.

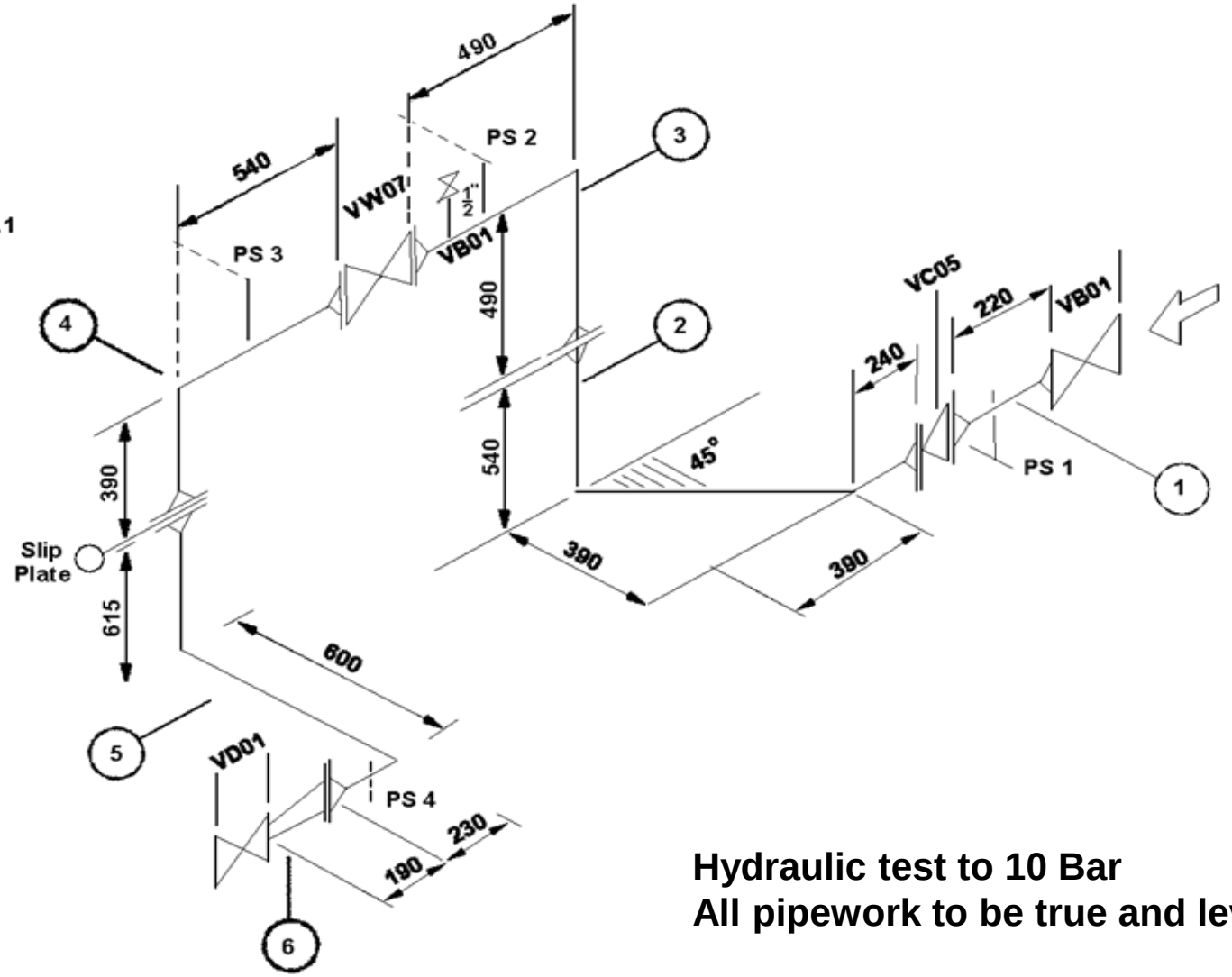
As a group you will be required to complete the above stated task within a specified time period.

Your work will be visually inspected and your performance observed.

You will be expected to work with the minimum of supervision and as a team.

Individually you will complete a rig assessment describing how the task was progressed, paying particular attention to any problems encountered and how they were rectified





Pipe	2" NB SCH 40 Mild Steel
Flanges	ASA 150 2" NB Weld Neck
VB 01	½" NB Ball Valve
VC 05	2" NB Check Valve
VW 07	2" NB Wedge Gate Valve
VD 01	1" Diaphragm Valve
VB 01	2" NB Ball Valve
Bolts	5/8 UNC Heavy Series
Joints	ASA 150 2" & 1" fibre

Hydraulic test to 10 Bar
All pipework to be true and level

Department Fabrication & Fitting	**Title** Pipe Test-Rig:- 01	**Drawn** R. Collins **Date** 10 - 7 - 91	**Drawing No.** 0001 / 1
Tolerances All Sizes In Millimetres	**Material** Mild Steel Pipe SCH 40	**Scale** Not to Scale	Sheet 1 of 1

PIPE RIG EXERCISE

Permit to work required at all times (No trainees allowed near task without a permit)

Carry out a RISK ASSESSMENT

PPE to be worn at all times

Rig to be erected OUTSIDE

Pipe isometric drawing is the main source of information

During erection of rig it will be periodically visually inspected

On completion of construction a 10 bar Hydraulic pressure test will be carried out

Safe depressurisation, safe opening and draining procedure to be adhered to.

Return all equipment to stores

This task will be conducted as per ON_SITE conditions

NO HORSEPLAY

WORK AREA / ROOM No: EQUIP. No.

DESCRIPTION OF TASK:

IS PROCESS OR ELECTRICAL ISOLATION NECESSARY YES / NO * (* delete as required)

(If YES, complete the rest of this section by ticking the applicable boxes)

	N/A	YES	NO
Is it necessary to break into any pipe or equipment ?			
Is the equipment positively isolated by spade or broken line ?			
Is the equipment only mechanically separated by valve or cock ?			
Is the equipment depressurised ?			
Is the equipment drained ?			
Is the equipment isolated from all sources of mechanical motive power ?			
Is the equipment electrically isolated ? If YES , state where isolated.			
Is any hot work being carried out?			

POSSIBLE HAZARDS:

P.P.E. TO BE WORN (tick where applicable & add any additional equipment in blank boxes)

Boots		Overalls		Safety glasses		Helmet	
Neoprene suit		Safety harness		Goggles		Gloves	
Leather apron (fabrication only)		Spats (fabrication only)		Full face protection		Dust / fume mask	
Ear protection							

ADDITIONAL PRECAUTIONS:

IN AN EMERGENCY REPORT TO: Muster Point

I understand the statements and do / do not* require to be shown the job (* delete as required).

Person handing over equipment	Person accepting above conditions of work	No. persons	Time / Date	Work signed back	Time / Date

NOTE : THIS PERMIT IS ONLY VALID ON THE DAY OF ISSUE

IS WORK AREA CLEAN AND SAFE YES / NO * IS THE TASK COMPLETE YES / NO *

(* Delete as required).

If NO, detail hazards remaining. .....

HAND-BACK

ACCEPTED BY ..... TIME / DATE .....

Risk Assessment Exercise.

(to be completed by all trainees prior to ANY practical work)

Name : ..... Group No: ..... Date: .....

Area : .....

Title or description of proposed activity:

Is a Permit to Work required ? YES / NO

What can go wrong? (consider tools, equipment and materials etc. as well as activity itself)