

## Hydraulic System Training – Stage 3

This is the current most advanced hydraulic course from MGR Fluid Engineering. The course is typically delivered over 1 day, and trainees will be given the course notes and a work pack.

The subjects covered would be:

- **Theory** – calculations of pipe and hose pressure drop, heat generation and sizes of hydraulic cylinders.
- **Design exercise** – design a simple hydraulic systems, to include, a reservoir, pump and prime mover, valve, pipes and hoses, cylinders, filter and instruments. The components would have to be sized.
- The designed systems would be simulated using Automation studio to show the performance of the systems designed.
- **Contamination control** – theory behind controlling contamination in hydraulic systems.
- **Safely working with hydraulics** – looking at the main risks and how to mitigate them.
- **Fault finding** – looking at hydraulic schematics and developing a process to trouble shoot theoretical problems.

