Hydraulic System Training – Stage 2

This is the second course in our Hydraulic system training range. 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:

- **Understanding hydraulic schematics and how they work** – review of hydraulic symbols and a look at different hydraulic schematics, the components in them, what the components do and how the circuit works. Includes fixed and variable displacement pumps.
- **Hydraulic system design aspect**s – type of pumps, valves, filters, coolers, tanks, pipes and hoses.
- **Calculations, motor power, flow rate and pressure** – understanding important calculations for electric motor power output and how to select the most suitable flowrate and pressure for a hydraulic system. A look at hydraulic cooling and how to size a cooler. Sizing hydraulic cylinders for speed a force characteristics

We use Automation Studio to show hydraulic circuit simulations, showing pressure flow and speed so that visualisation can help improve understanding of the concepts.

