

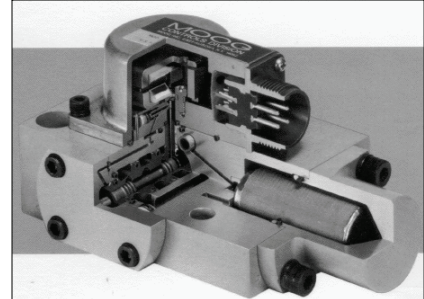
An Introduction to Closed Loop Control - Course Syllabus

Introduction

A one day course ideal for technical staff involved in mechanical testing

Aims

- To define closed loop control
- To inform about open and closed loop systems
- To review feedback, error and control modes
- To consider how electronics are linked with hydraulics
- To gain a core glossary of terms used within closed loop servomechanisms



You might benefit from this course if:

- You have no knowledge of servomechanisms or closed loop control
- You are unfamiliar with transducers
- You manage testing staff and would benefit from an overview of closed loop control and devices
- You need to specify or purchase testing equipment

Course content

- Definition of a servomechanism
- Electrohydraulic proportional control systems (Power source, control element, feedback sensor, error activator)
- The servo and proportional valves (including three stage valves if required).
- Feedback sensors - transducers - the LVDT, loadcell and pressure transducers etc. (including Rcal. and calibration).
- The error activator - the error path.
- The application of the basic elements in a closed loop control system.
- Step response - marginally stable criteria (include three stage valves if required).
- Electronics - amplifiers - proportional, integrating, differential and damping (PID)
- Digital electronics
- Control modes.
- Dither and servovalve balance.
- Glossary of terms.

Systems Services incorporate the following for each delegate in each training module:

- Full training notes including a copy of the course notes and attendance certificate.
- An additional package of useful information relevant to the course completed.

For more information please contact training@systems-services.com or call 01205 724242

“An informative and well presented course”