

## Process Control

### Course Duration

- 4 Days (1 x 4 day week)

### Course Objectives

- To provide essential underpinning knowledge of Process Control principles and techniques

### Course Content

- Basic revision of Physical Properties, Units of Measurement and Safety
- **Transducers and Sensors e.g.**  
Pressure                      Temperature                      Turbidity  
Level                              Flow                                      pH  
Weight
- **Process Control Principles**  
Controller types                      Controller responses  
P, PI, PD, PID,                              Controller action
- **Tuning Controllers**  
Zieger-Nichols step, response and Frequency response methods  
Quarter delay ratio  
Nyquist curve
- P + I.D. symbols – BS 1646
- **Standard Signals**  
Pneumatic                              Analogue  
Digital                                      Binary
- **Plotting Information**  
Chart recorders                      Data Loggers
- Series of exercises building up control systems, tuning controllers and plotting information for future reference.

### Who should attend

- Personnel who work with, or persons who require an insight into Process Control principles and measurement techniques.

### Venue

- EAGIT Training Centre

### Dates

- By arrangement or as EAGIT Course Calendar

### Costs

- On application – but subject to numbers

### Course Requirements

- Personal Protective Equipment

### Course Certificate

- This course carries an EAGIT issued Certificate of Attendance

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