



ESC
MACHINERY
SAFETY



ESC is well known for their rapid response to machinery risk assessment calls via their web site.

Problems with “in use machines” occur when production modification are required or the HSE has turned up to conduct an inspection.

When the call comes, ESC mobilises quickly by deploying one of its principal CMSE qualified consultants, normally via a site visit.

The production manager wants the line up and running quickly and complying to the latest safety standards. This may involve machine modifications e.g. adding guarding or interlocks as risk mitigation to prevent operator harm and updating electrical installations to IEC 60204.

The ESC consultant performs an initial interview with the responsible engineer or technician and inspects and audits the machines in question. ESC takes many photographs and collects as much operational data as possible.

The consultant will also review the production line against the Provision and Use of Work Equipment Regulations (PUWER) regulations. ESC also inspects COMAH sites to meet the latest regulations and offer solutions that include ATEX Zone classifications.

Back in the office, ESC conducts an in-depth study, typically using our MachSET® software to produce a report that offers the client a coherent solution to the safety issue under study. Where PUWER is required, ESC produces a gap analysis report and offer recommendations for full compliance.

ESC then either works with the client’s own systems company to implement the solution or provides the solution direct via its own safety integration centre.

Generally, solutions are:

- Increase in fixed and removable mechanical guarding.
- Implementation of electrical interlocked guarding to ISO 13849 or IEC 62061
- E-Stop specifications and area plotting to EN 13850
- Closing the GAPS to meet PUWER regulations.

The average cost for the consultancy is under £3,000 and has proven to reduce costs over the lifecycle of a machine.

In the words of Dr. Trevor Kletz:

“If you think safety is expensive, try an accident!”