



## EMC engineering and consulting

### Overview

The electromagnetic compatibility (EMC) is very important in the industrial field. The related standards must already be respected during the circuit development.

The design of the printed board and of the box has influence on the electric performance of the electronic system during failures.

### Competence

MESCO Engineering is your partner for innovative electronic development and software development in the field of process and factory automation.

The customer-oriented services of the laboratory and the EMC engineers consist of training, mentoring and cooperation during the development, complete documentation preparation and realization of all necessary measurements for CE label.

If required MESCO development experts in the fields of explosion-proof, functional safety or field bus communication may be consulted. So it is possible to implement the located fault clearance activity directly into CAD in order to get a whole redesign.

MESCO is characterized by long lasting experience and know-how.

### EMC Laboratory

MESCO has an own EMC laboratory with shielded chamber. All required EMC tests (internal/external) may be passed.

### Standards

- EMC guideline 2007/108/EG, European harmonized standards, DIN VDE standards
- IEC, CISPR, FCC, VCCI, NAMUR
- EN 61000-6-1 /-2 /-3 /-4
- Product line- and product-standards e.g. EN 61326-1, EN 61326-3-2



### Services

- Feasibility studies / EMC concept creation
- Workshops and development accompanying consulting regarding CE-label, EMC conform design and layout
- Consideration of EMC-requirements for functional safety (SIL) and explosion-proof (IECEX)
- Measurements in the MESCO laboratory and development of fault clearance activities
- Consultation and possible cooperation of MESCO development engineers
- Hardware redesign
- CAD redesign / prototyping
- Creation of complete EMC test readings with detailed documentation of the measuring results for CE-label

