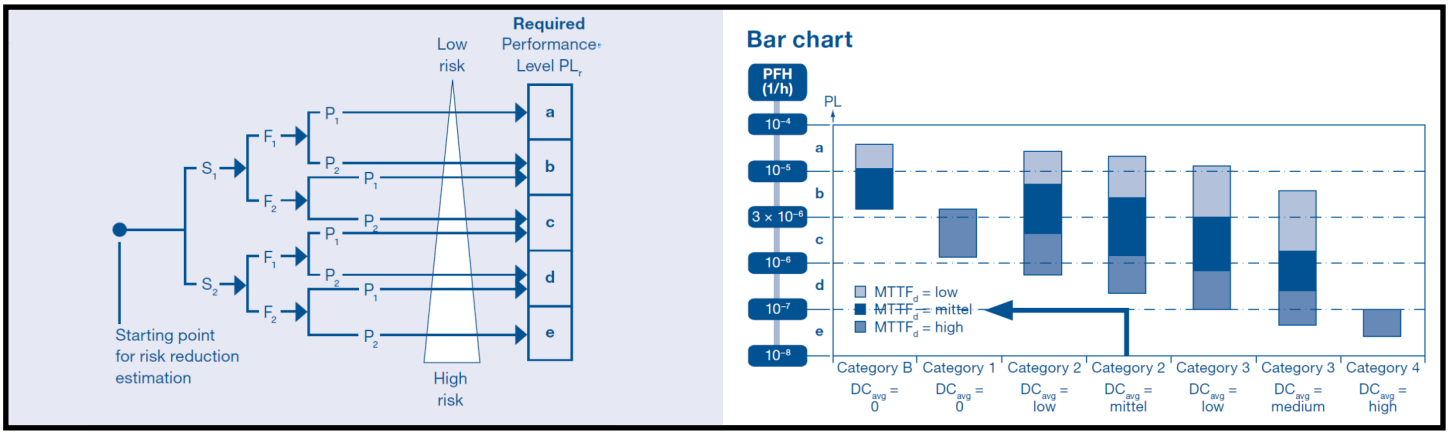
SCHMERSAL tec.nicum

ISO13849 - Understanding and Implementation

A review of the aspects within the ISO 13849 Standard



ISO13849 is a global harmonized standard relating to the risk assessment, design, and performance of safety control systems on machinery. This standard is accepted worldwide as the principle safety control design guideline and it represents a major change in the philosophy of hazard analysis and design of safety related parts of machine control systems.

Let Schmersal help you take a step into the world of machine safety with this 8 hour course.

Course outline:

- Why ISO13849 was created
- How to apply it to a machine
- Understanding Performance Levels (PL)
- Control Categories
- CCF – Common Cause Failures
- DC – Diagnostic Coverage
- $MTTF_d$ (Mean Time to Dangerous Failure)
- PFH_d (Probability of Dangerous Failure per Hour)
- B_{10d}Mission Time
- Symbolic Blocks
- Fault Exclusions
- Validation
- Maintenance
- Documentation
- Calculating Safety Functions
- SISTEMA
- Working Examples

This course can be presented in person in one day, or broken up into multiple sessions for online (live) presentation.

A TÜV Certified Functional Safety Engineer for Machinery from our tec.nicum Group will be presenting this training. Their experience will bring the expertise that you are looking for in a machine safeguarding specialist.

For more information regarding this training or our other Engineering Services, please contact:

Peter Rigakos P.Eng., BSEE
FS Engineer (TÜV Rheinland, #10104/15, Machinery)
Phone: 317-496-5484
E-Mail: prigakos@schmersal.com

Schmersal USA
15 Skyline Drive
Hawthorne, NY 10532
www.schmersalusa.com