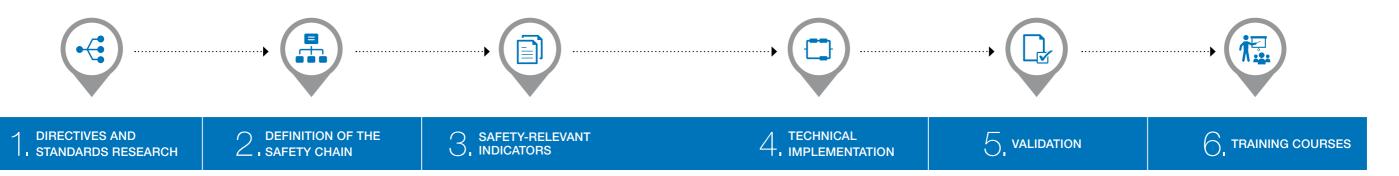
We know the way to optimal safety. Accompany us.



Your key questions:

- Which potential hazards can occur in my machine and how can I assess them?
- Is a safety function involved? Does a failure of this function lead to the endangerment of persons?
- Do my protective devices depend on a control system?
- Should SMC provide an installation-ready solution (e.g. in the form of a control cabinet)?

- What Performance Level emerges from my risk assessment?
- Do constructive measures suffice to minimize the hazard?
- Which safety functions are appropriate for the respective hazard situation?
- Which components belong to the safety function?
- Which options do I have to achieve the required Performance Level?

- S How often can the safety function expect to be actuated?
 - Does the safety chain's service life correspond with that required by the standard?
 - To what extent must I be able to detect a safety function's failure?

Your key questions:

- How do I design a standardized circuit?
- Must a circuit be evaluated by external assessors?
- What do I need for complete CE-conformant documentation?
- In which form must the documentation exist?
- How long must the documentation be available?

- Was the required Performance Level actually achieved?
- Have I worked according to the latest state of technology?
- Were all safety principles properly implemented?
- Have I analyzed all of the misuses that could be expected?
- Which errors can I preclude?
- Does my quality assurance satisfy the requirements of the standard?

- What duty of information do I have towards to the machine's user?
- Does a need exist in my team for further education and training in the area of machine safety and pneumatics?

SMC offers solutions:



We support you during the risk assessment as well as with questions about various directives and about Performance Level.



We help you to find the appropriate safety functions corresponding to the hazard and to implement them under ISO 13849 and the current safety regulations.



We gladly provide all of the necessary parameters for SMC components. Furthermore, SMC offers expert support when calculating the safety function pursuant to ISO 13849-1.

SMC offers solutions:



We support you comprehensively in the drafting of circuit schematics and concepts – from the simple circuit to complete, installation-ready CE-conformant solutions.



We gladly support your during the testing and analysis of your safety system according to ISO 13849-2.



SMC offers targeted, customized training courses and advanced education on the subject of safe control with emphasis on pneumatics and electrical equipment.



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