The Sixth Dimension: Training

We provide comprehensive training programs, both onsite and office-based, tailored to meet our clients' specific needs. Our courses cover a wide range of topics, from basic system operation to advanced troubleshooting and maintenance. By equipping teams with essential skills and knowledge, we ensure they can effectively operate and maintain their automation systems.

THE 6ᵗʰ DIMENSION

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Training course on Machine Safety

Training course on Machine Safety

Course Contents:

Day 1:

- Introduction
    - TÜV Rheinland
    - Trainer
    - Participants
    - Machinery Directive 2006/42/EC
- Machine safety standards and their relationship
    - ISO 12100
    - IEC 62061
    - ISO 13489
- Determination of limits of machinery.

- Hazard Identification - Practical example of Hazard identification
- Risk Assessment - Practical example of Risk Assessment
- Risk reduction (Layers of protection) - Practical example of Layers of protection
- Safety objectives in design
- Performance Level (PL)
- Diagnostics coverage
- Incident case study
- Question and answers & Homework

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Day 2:

- Recap of Day 1 & Discussion on Homework. Concepts of SIL
- SIL Determination
- Management of functional Safety
- Concept of Safety-Related Control Functions (SRCF)
- Concept of Safety-Related Electrical Control System (SRECS)

- Complimentary protective measures.
- Markings, Warnings and signs for accident prevention.
- Personal Protective Equipment.
- Machine safety check list.
- Behavioral safety check list .

Day 3:

- Examination: 100 marks, 3 hour, 2 parts, closed book, Passing criteria:70% marks
- Part1: 60 multiple choice questions, 1 mark each. No negative marking.
- Part 2: 10 open questions, 4 marks each

- Duration: 3 days (For both Online & Offline)