

The Sixth Dimension: Training



THE 6th DIMENSION

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.

Training program on Hazardous area – Sick

Course Contents:

Day 1:

- Introduction of TUV Rheinland.
- Hazardous area concept and brief history
- Constituents for fire and explosion hazards
- ATEX Equipment and ATEX Workplace directives
- Hazardous area classification as per IEC 60079
 - As per NEC / CSA / NEMA
 - As per ATEX
 - As per IEC
- Grouping of Flammable gases & dust.
- Temperature classification for Hazardous areas
- Electrical equipment enclosure protection methods
 - Explosion proof / Flame proof as per IEC 60079-1
 - Purge & Pressurization as per IEC 60079-2
 - Non Incendive (EXn) as per IEC 60079-15
 - Intrinsic Safe (EXi) as per IEC 60079-11
 - Encapsulation (EXm) as per IEC 60079-18
 - Oil filled or immersive (EXo) as per IEC 60079-6
- Incident case study
- Homework, Question and answers.

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Training course on Machine Safety

Course Contents:

Day 2:

- Recap of Day 1, discussion on Homework
 - Non-Electrical enclosure protection methods
 - Hazardous area classification as per IEC 60079-10 and IS 5572
 - Source of release and Ventilation as per IEC 60079-10 and IS 5572
 - Instrument installation in Hazardous areas as per IEC 60079-14 & IS 5571
 - Practical example of Hazardous area classification
 - Concept of Exia and Exib
 - Decoding Ex markings of part numbers with example
 - Practical example of decoding
 - Equipment repair, overhaul and reclamation as per IEC 60079-19
- Examination: Multiple choice questions, No negative marking.
 - Duration: 2 days (For both Online & Offline)