

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 course on ISO 80079 series

Course Contents:

Day 1:

- Introduction: Trainers and Participants.
- Scope: ISO/IEC 80079-34
- Important terms and definitions
- Context of Organization
 - Scope of QMS systems
 - QMS processes
- Leadership
 - Commitment & policy
 - Roles, responsibilities, authorities
- Planning
 - Quality objectives
 - Planning of changes
- Support
 - Resource, Competence, Awareness
 - Documentation of information
- Performance Evaluation
 - Procedures for evaluation
 - Audits and reviews
- Operation
 - Operational planning and control
 - Requirements for Products and services
 - Control of nonconformance
- Improvement
 - Handling of Nonconformity
 - Continuous improvements
- Annexure A: Type of enclosure protection methods
 - Explosion proof / Flame proof as per IEC 60079-1
 - Purge & Pressurization as per IEC 60079-2
 - Non Incedive (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
 - Homework, Question and answers.

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Day 2:

- Recap of Day 1, discussion on Homework
- Scope: ISO 80079-36
- Important terms and definitions
- Equipment Protection Level (EPL) and Groups
- Ignition hazard assessment
- Possible ignition source assessment
- Additional considerations for Hazardous areas
- Verification and Testing requirements
- Documentation requirements
- Markings
- Decoding Ex markings of part numbers with example
- Incident case study
- Scope: ISO 80079-37
- Important terms and definitions
- Requirements of equipment with protection constructional safety "c"
 - Ingress protection (IP)
 - Requirements for moving parts, bearings, flexible couplings etc.
- Requirements of equipment for control of ignition sources "b"
 - Control parameters
 - Ignition protection types and system design requirements
- Requirements of equipment for liquid immersion "k"
 - Equipment construction requirements and criteria
 - Protective liquid requirements
- Markings
- Documentation requirements
- Examination: Multiple choice questions, No negative marking.
- Duration: 2 days (For both Online & Offline)