

# The Sixth Dimension: Training



THE 6<sup>th</sup> 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.

## Hazardous area classifications

### Training course on Hazardous area classifications

#### Course Contents:

- Introduction of TÜV Rheinland.
  - Hazardous area concept and brief history.
  - Constituents for fire and explosion hazards.
  - Hazardous area classification
    - As per NEC / CSA / NEMA
    - As per ATEX
    - As per IECEx
- Grouping of Flammable gases & dust.
- Temperature classification for Hazardous areas.
- Non-Electrical enclosure protection methods.
- Instrument installation in Hazardous areas.
- How to perform Hazardous area classifications.
- Examination: Multiple choice questions, No negative marking.
- Duration: 1 day (For both Online & Offline)
- Electrical equipment enclosure protection methods.
  - Explosion proof
  - Flame proof
  - Purge & Pressurization
- Non Incedive (EXn)
  - Intrinsic Safe (EXi)
  - Encapsulation (EXm)
  - Oil filled or immersive (EXo)
- Practical example of Hazardous area classification.
- Concept of Exia and Exib.
- Decoding Ex markings of part numbers with example.
- Practical example of decoding.
- Question & Answers.
- Source of release and Ventilation.