



Hazardous Area Classification to SANS 10108

Hazardous Area Classification (AC) study determines where explosive atmospheres are likely to form. It shows the volume and frequency of the explosive atmospheres on your plant (Zones), which will be indicated in a detailed report.

In order to conduct an accurate AC assessment typically the following information is useful (if available):

- A site layout or plot plan
- Material Safety Data Sheets (MSDS) of the flammable materials (for vapours those with a flash point of $\leq 55^{\circ}\text{C}$ or handled close to their FP).
- Process flow diagrams or process description.
- Operating pressure in pumps and their shaft seal configuration (single mechanical/double seals and the shaft diameter).
- Vent opening diameters.
- Tank volumes and typical filling speeds.
- Spillage containment configurations.
- Ventilation type and properties.

On existing plants the old AC drawings can be helpful but most of the information can be gathered with a plant walkthrough, with the plant personnel familiar with the processes.

If you are interested in conducting such a study, contact MTEEx Laboratories (Jaco or Donovan) who will then send you a cost quotation. Please tell us:

- Where the plant is (if you require a site visit).
- How many areas we need to assess.
- Send us the information above (if available).

Once you are satisfied with the Quote send us a purchase order and we can open a file and start the work. We aim to have the final report within two weeks and will send it as soon as it is available.

AC Drawings can be prepared by our sub consultant so please ask if you require us to do those and indicate how many drawings will cover all the areas (we are charged per drawing). We will need to do a sketch for the draftsman and photos are helpful.

If you have a drawing it will also help a lot.

Alternatively you can send us your drawing and we can redline and approve the final.

Please note that we have an A3 printer so the drawings will be prepared in A3 format.

We can prepare the basic SANS 10108 **Yellow Triangles** should you require it, please ask.

Kind Regards,
The MTEEx Laboratories Team