



# HSE REQUIREMENTS FOR ENVIRONMENTS ESTABLISHMENTS



### **HSE requirement to industrial activities**

When applying for a commercial license for food activity. A layout should be provided with a detailed plan through an approved engineer consulting company a final approval must be obtained from to AFZ-Property sector before starting the business. This plan shall indicate all activities, equipment, and specifications of building.

#### **Location:**

- Must be within the industrial zones,
- Ensure the activities of neighboring enterprises, in order to suit the nature of the target activity.

#### **Flooring:**

- Made of concrete and smooth and there are no cracks in it.
- To be resistant to activity and alkali.
- The presence of a drainage system surrounded by all sides isolated from the public drainage system and rainwater harvesting channels.
- Provision of rainwater channels or leakage into the building

#### **Roof:**

- The purpose of the roof is to prevent rain from entering the warehouse as well as to block sunlight.
- It must have chimneys that allow smoke and heat to escape from it in cases of fire. The materials that increase the chances catching fires in the roof (wood, plastic ...) must be excluded from usage.
- The roof-bearing structure shall be made of fire-retardant and non-combustible materials.
- There must be ceiling vents for ventilation.
- The roof can be constructed from a lightweight and brittle material so that it is not resistant to fires and allows fumes to escape in case of fires

#### **Walls:**

- The presence of partitions between materials that do not fit with each other, using separate buildings.
- The internal partition walls of the warehouse floor must be fire resistant for at least an hour and at least one meter high above the standard of the containers.
- The partition walls must be independent of the building structure.
- The presence of several emergency doors in line with the warehouse space.
- Use of some support columns in the walls.
- Provide wall vents near ceiling vents.

#### **Ventilation:**

- The ventilation openings must be constantly open and easy to open continuously by hand or

open automatically in cases of fire

**Lighting:**

- If the work is during the day, then natural lighting is sufficient.
- If there is electrical equipment for lighting, it must be far from the movement of materials movement inside the store.
- The electrical switches must be of the fire-resistant type.

The warehouse must be protected from the impact of lightning strikes, especially those containing inflammable materials.

**Storage:**

- There must be sufficient space to move freely between the stored materials, whether for individuals or transport mechanisms.
- The presence of pathways around the storage area to collecting leaked materials to the designated drain.
- Access to the materials shall be available from two sides.
- There must be a distance between the materials and the walls not less than 100 cm.
- Provided adequate ventilation spaces.

**The internal safety of the facility:**

- For establishment it is mandatory to obtain civil defense certificate from the civil defense department.
- The facility must obtain approval for the business plans.
- The facility must obtain relevant permits or license when carrying out any expansions, adding any new industrial activity, or changing any industrial process in the event of storing hazardous chemical materials, applying the requirements for that.
- Providing personal protection equipment in line with the required activity.
- Various indicative and warning signs must be posted in clear places for all workers in Arabic and English, and in any appropriate language when required.
- Separate ventilation systems should be provided for workers, working in or near closed thermal rooms.
- All machinery and equipment must be subject to periodic inspection, and any damaged parts must be replaced in time.
- Separate storage area of gas cylinders must be allocated and gas connections must be done under the supervision of a competent technician.
- Protect electrical connections with a material that delays their exposure to fire.
- The management of the industrial establishment shall carry out the process of self-monitoring of the aspects of the environment in the facility, and check the environmental indicators and the extent of change therein periodically.
- In the event of observing any negative environmental indicators in the internal or external environment of the facility, inform the Health, Safety and Environment Department.

**Emissions and External Environmental Protection:**

- Providing filter units to control and reduce pollutants for the external environment.
- Providing intake and filter units to control and reduce dust pollutants in the indoor environment.

**Environmental studies and necessary measurements:**

- Submit a work plan to the Health, Safety and Environment Department for approval.
- Submission of an Environmental Impact Assessment Study (EIA) for projects with an area of more than 150 square meters through the environmental companies accredited by the Health, Safety and Environment Department.
- It is not permissible to practice the activity before the approval of the environmental impact assessment study of the facility.
- Regular samples of solid and liquid wastes resulting from industrial activity are taken periodically and examined at the Environmental Laboratory of the Municipality of Ajman. Measurements of pollutants (based on the requirements of Federal Law No. 24/1999) are made periodically at the site (internal and external environment) by companies approved by the Health, Safety and Environment Administration.