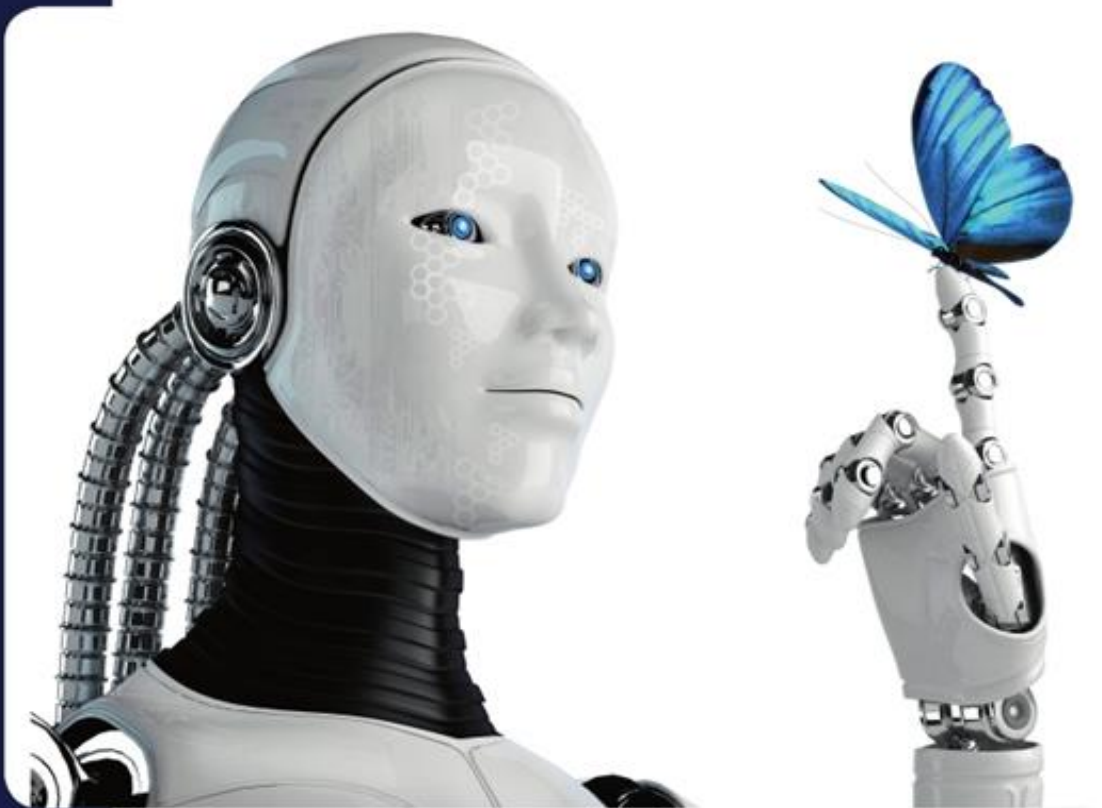


Newsletter

June, 2019



ICR



Hot Issue

1. ICR Corporation third part of Samsung electronics
2. Participate in medical device licensing and certification seminar
3. FSSC 22000 Introduction
4. Explosive atmospheres



ICR Corporation



Third party of Samsung electronics

ICR was registered as a third party of Samsung Electronics Co., Ltd. Since May 30 th, 2019 and was appreciated as a certification body of safety evaluation of products in semiconductor manufacturing.

Accordingly, CE certification and/ or SEMI evaluation report published by ICR are officially accepted.

ICR provides various services for machinery certification, On-site EMC testing, SEMI evaluation, and explosion proof certification.

CE certificates provided by ICR Polska (Notified No. 2703) can be supplied to Samsung Electronics at a level equivalent to CE-CoC from other European bodies.



ICR



삼성전자

Participate in medical device licensing and certification seminar



On May 23, ICR medical device team participated in medical device licensing briefing hosted by the KCL(Korea Conformity Laboratories).

The seminar was held to provide an understanding of the licensing and certification services associated with medical devices and, each laboratory and manufacturer participated and shared information.

Participate in medical device licensing and certification seminar



In this seminar, the head of the medical equipment team, Jin-hyeon Kim , gave a brief company introduction and, lectured under the theme of 'Up-to-date Trends and Domestic Applications of IEC 60601'

This seminar was an opportunity to publicize our ICR to those interested in medical device certification and, we will keep doing our best actively participate in each seminar to help our customers in the medical device certification field

FSSC 22000 Introduction



Developed in response to the needs of the international food sector, FSSC 22000 provides an independent ISO-based food safety management scheme for third party auditing and certification of their FSMS.

FSSC 22000 is fully based on the international, independent standards: ISO 22000, ISO 22003 with sector specific technical specifications for Prerequisite Programs (PRPs) and additional scheme requirements.

The FSSC 22000 scopes define the requirements necessary to ensure a management system is in place to meet the demands of regulators, food business clients and consumers.

Organizations throughout the food supply chain can benefit from FSSC 22000 certification, regardless of their size or complexity.

FSSC 22000 Introduction



They include organizations which handle, manufacture or process:

- perishable animal products (e.g. meat, poultry, eggs, dairy and fish products).
- perishable vegetal products (e.g. packaged fresh fruits and fresh juices, preserved
- fruits, packaged fresh vegetables, preserved vegetables).
- products with a long shelf life at ambient temperature (e.g. canned products,
- biscuits, snacks, oil, drinking water, beverages, pasta, our, sugar, salt).
- food ingredients (e.g. vitamins, minerals, bio-cultures, flavourings, enzymes and processing aids).
- food packaging materials (direct, indirect contact with food).
- food and feed for animals (e.g. animal feed, fish feed).
- primary animal products (e.g. milk, fish, eggs, honey).
- transport and storage activities across the food supply chain.
- catering services (e.g. air catering, railway, school and industry dining rooms, hospitals).

Explosive atmospheres

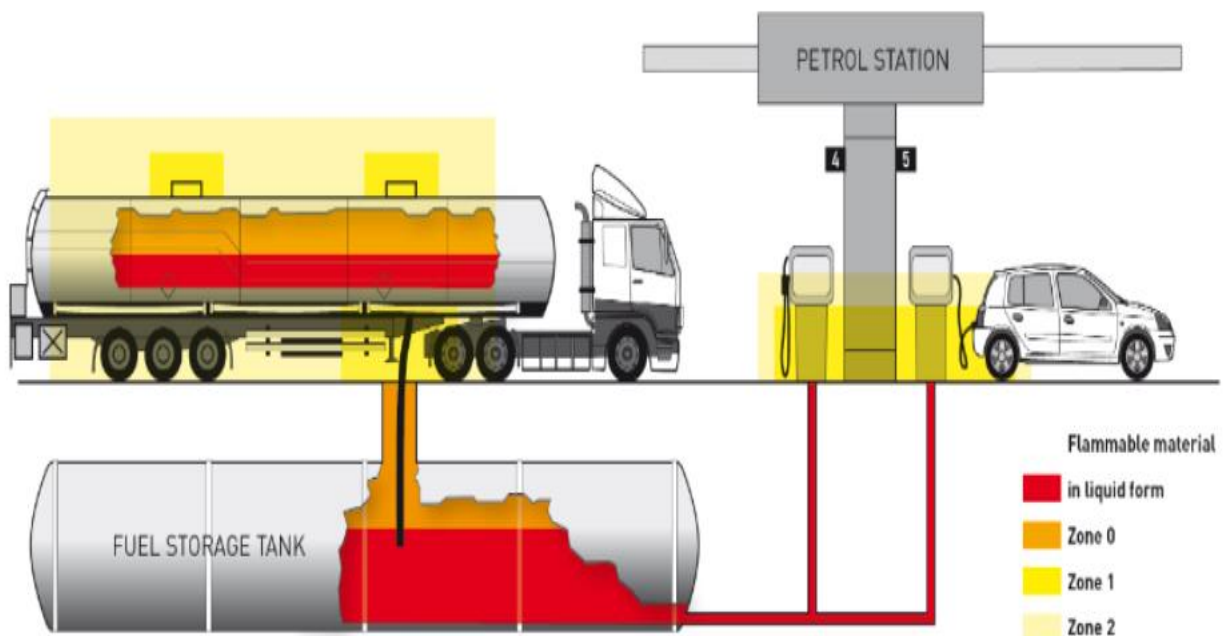


- Requirements for the proper selection and installation of electrical equipment for use in hazardous areas and for the classification of areas where the risk of flammable gases and vapors can occur are specified in [IEC 60079-10-1:2015](#).
- The likelihood of creating an explosive gas atmosphere will be affected by [grade of release](#), [dilution](#), and [ventilation](#), which can determine the location of the explosion hazard
- [Grade of release](#) is the persistence and frequency of flammable material release and is divided into continuous grade of release, primary grade of release and secondary grade of release.
- [Dilution](#) is flammable gases and vapors mixed with air are reduced in flammable concentration, over time, and the dilution grade is divided into high, medium, low.

Explosive atmospheres



- Ventilation is movement of air and its replacement with fresh air due to the effects of wind, temperature gradients, or artificial means and the ventilation class is divided into good, fair, poor.
- The explosion hazard area is divided into zone 0, zone 1 and zone 2 based on the generation frequency and duration of the explosive gas atmosphere.



<https://www.atexshop.com/what-is-atex>

Explosive atmospheres



- Zone 0 : An area in which an explosive gas atmosphere is present continuously or for long periods or frequently
- Zone 1 : An area in which an explosive gas atmosphere is likely to occur periodically or occasionally in normal operation
- Zone 2 : An area in which an explosive gas atmosphere is not likely to occur in normal operation but, if it does occur, it will exist for a short period only



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