



Talk On Requirements for Equipment in Explosive Atmospheres (Design, Safety, Standards & Certifications)

by Dr Siow Chun Lim

Dr Siow Chun Lim is currently a General committee in the Electrical Engineering Technical Division (EETD).

Talk on 5th July 2018, the IEM Electrical Engineering Technical Division (EETD) has successfully organised a talk on requirements for equipment in explosive atmospheres at Wisma IEM. There were 3 speakers and the talk was attended by more than 20 participants.



The participants

The first speaker was Mr. Basori who is the current Head of Product Certification and Inspection Department of SIRIM QAS International. According to him, the IECEx certification enhances safety at the workplace by equipping all personnel working in the explosive environment with the right competency level and qualification. He noted that industries such as oil and gas has a high probability of causing fatalities, injuries or damages the property and environment if the working personnels are insufficiently trained and incompetent.

Ir. Mohamad Faudzi was the next speaker. He is the group technical authority and leads PETRONAS Group Electrical fraternity. He spoke comprehensively on IECEx at national standards and rotating machine standards in hazardous area. He clearly defined the role of Standards Malaysia, the industry and the professionals in Malaysia on IECEx. The criteria on hazardous area in terms of classification and practices were also outlined.

The final speaker was Ir. Quah Ewe Hock. IEC 60079-14 & MS 2894:2018 by Ir Quah Ewe Hock. Ir. Quah first revisited the basic fire triangle for explosion before moving on to introduce the common standards in use. He also briefly described how hazardous areas are classified and some common explosion protection techniques to help those new to this area. He then narrowed down his discussion on the salient points in the IEC 60079-14 standards on design, selection and erection of electrical

equipment in explosive atmospheres with emphasis on the requirements introduced in the recently approved Malaysian Standards MS 2894: 2018 on Electrical Equipment for use in Explosive Atmospheres in Tropical Service Conditions.

At the end of the talk, Ir. Faridon of the IEM EETD presented token of appreciation to all 3 speakers.



Ir. Faridon presenting the token of appreciation to all 3 speakers.