

## Fire Training Simulators

COSEM, in partnership with Hexcel Solutions, has the capabilities and resources in the production of fire training simulators. COSEM offers standard or custom designs of fixed and mobile fire training simulators to meet any particular training needs. COSEM can design and build a wide variety of 'near-realism', challenging and practical training simulators to enable fire fighters to train under realistic environment to prepare them for different aspects of emergency response such as LPG tank fires, oil refinery fires, air craft fires, etc.



### LPG Tank Training Simulator

The LPG Bullet Tank simulator simulates the LPG Tank impinged by fire. Trainees must react fast to prevent a Boiling Liquid Expanding Vapour (BLEVE) from occurring. It builds up confidence and teamwork in the trainees as they negotiate movement towards the Tank to shut off the valve. It also allows them to take the correct action when facing LPG incidents.

### Car Fire Training Simulator

The Car Fire simulator has smoke and fire at the front and passenger seats so as to train the fire fighters on the approach to car fires and the need for snatch rescue as a priority.



### Aircraft Training Simulator

The aircraft simulators which feature realistic, challenging interior and exterior fires will enhance the emergency preparedness of the fire fighters in tackling the fire incidents. Various scenarios involving Airbus A380 superjumbo, Super Puma, under carriage & wheel fire, wing & tail engine fire and any other particular requirements can be customized to meet the clientele's training needs.





## Karaoke Lounge Flashover Training Simulator

The setting of a Karaoke Lounge with tables, chairs, wine bottles and bar-top is to add realism to the training. From past incidents, a fire that breaks out in these places will result in a mass casualty situation. The fire can also spread rapidly across the entire premises. Trainees will learn to recognize the signs and symptoms of a build-up phenomenon known as flashover.



## Chemical Plant Training Simulator

The Chemical Plant Training Simulator is designed to provide safe, positive and quality experience for training of fire fighters in the correct response to various fire and hazardous materials, emergencies in petroleum, chemical and industrial process settings. There is white smoke to simulate leaking gas and spill fires involving over-turned drums that require mitigation.



## Oil Storage Tank Training Simulator

The Oil Storage Tank Training Simulator allows the trainees to learn to apply the correct extinguishing medium and equipment in the event of a fire breakout involving oil storage tanks in refineries. This Training Simulator also requires the trainees to be aware of the logistical requirements in such operation, such as the proper calculation of foam required and also proper placement of monitors to provide effective extinguishment of the fire.



## Chemical Warehouse Training Simulator

There are high racks laden with huge industrial drums that contain chemical substances in the Chemical Warehouse Training Simulator. One of the important lessons that trainees learn is to recognize the UN HazMat Classification placard on the containers. The placard can be changed according to training needs. The Simulator helps to heighten the awareness of fire fighters of the existence of any chemical substances at scene during their mitigation, as well as to understand the characteristics and reactivity of the chemicals.

