



**(APPROVED TRAINING INSTITUTE UNDER SECTION 111 A OF FACTORY ACT 1948 "
BY THE DIRECTOR OF INDUSTRIAL SAFETY & HEALTH (DISH) GOG.
APPROVAL NO : DISH/A-LAW/2023/603 DTD. 18.04.2023)**

ABOUT GSFC UNIVERSITY

GSFC University is recognized under the Gujarat Private University (Second Amendment) Act, 2014 and is established by the GSFC Education Society- an initiative of Gujarat State Fertilizers and Chemicals Ltd, six decades old industrial giant, to continue the tradition of serving the community in multiple ways.

The vision behind establishing this distinct University is society development through relevant and cutting edge knowledge in frontier areas of professional Growth. GSFC University itself being a CSR initiative, introduced BTech Fire & EHS from the Academic year 2019-20 being a very important and socially relevant program and set up a Fire & EHS Lab to provide practical knowledge to the students.

ABOUT FIREPLEX

Fire poses an omnipresent risk – a risk that pervades all spheres of life and sectors, regardless of size, location or other such factors. The history of Fire Services in India is more than two hundred years old. Based on the study report on stock of trained personnel in Fire service in the country, there is widespread absence of trained professional in the field of fire prevention, life safety and fire protection systems. Therefore, there is a need of the hour is to create a cadre of fire and safety professionals trained in state of Art Training facilities.

GSFC University has developed the FIREPLEX in Fire & EHS in the total plot area of 2875sq mtr. The FIREPLEX has the facilities like Fire Drill ground, Fire Drill tower, Fire Pump House, Sprinkler room, Foam Spray room, Smoke chamber, Hydrant system, Medium & High Velocity Water Spray System (MVWS, HVWS), Fire alarm system and Gas Flooding system etc. at a single location. The purpose of these facilities is to provide in-depth practical training and live demonstrations of Firefighting and rescue operations to students & Industrial professionals at FIREPLEX.

Further the FirePlex is approved training institute under Section **111A of Factory Act 1948** by Director of Industrial Safety & Health (DISH), GoG. Approval No: **DISH/ A-LAW/2023/603 Dtd 18.04.2023.**

OBJECTIVES

- To impart training in Fire protection, Firefighting and rescue using state of the art facilities of FIREPLEX.
- To create a sense of awareness among surrounding industrial community and citizens in the area of Fire & EHS.
- To develop students ready to serve industries, institutions & Organizations.

USPs OF FIREPLEX

1. First of its kind facility for practical training of Fire Fighting & EHS in Gujarat.
2. State of the art infra structure at FIREPLEX coupled with well-equipped Fire & EHS laboratories at single location.
3. State of Art Training facilities in Fire prevention, Fire protection, Fire Fighting and Rescue.
4. Practical & Collaborative Learning with Industry.
5. Campus with superior in house Experts.
6. Patronage by GSFC Ltd. which has an excellent Fire & Safety infrastructure.
7. Single location for practical test platform of F&EHS candidates for International recruiters.



TRAINING FACILITIES @ FIREPLEX

1. FIRE DRILL TOWER

- Fire drill tower designed for the rescue and fire-fighting training.
- The dimension of the Drill tower is 3.5m*3.5m*18m



6. ADDRESSABLE FIRE ALARM AND DETECTION SYSTEM

- Fire drill tower designed for the rescue and fire-fighting training.
- The dimension of the Drill tower is 3.5m*3.5m*18m
- Addressable fire alarm system is developed in the area of 4.5m*5.5m with multi-smoke detector, Heat detector, Beam detector & Manual call point

2. FIRE WATER TANK

- Color Bond Zinc-alume Corrugated - High Tensile Steel Sheet Tank having capacity @ 66KL (eff. Volume) with Stretchable Liner



7. GAS FLOODING SYSTEM

- Gas flooding system designed in the room of 4.5*5.5m with 68 Ltr CO2 cylinder with Gas release panel, smoke detector, heat detector to understand the basic design of Gas flooding system

3. FIRE PUMP HOUSE

- The pump house dimension 4.5m*8m
- Electric Motor pump - 137m³/hr
- Diesel Pump - 137m³/hr and 1800rpm
- Electric Jockey Pump - 10.8m³/hr



8. FIRE DRILL GROUND & FIRE HYDRANT NETWORK

- Fire Hydrant Network with , one water monitor, Two Way Fire brigade inlet valve, Double door MS Hose Box, First Aid Hose Reel 25mm*40m.
- Fire Drill ground of 550sqmtr area for training.

4. SPRINKLER SYSTEM

- Sprinkler room of 4.5m*5.5m dimensions where there are Upright sprinkler, Pendant Sprinkler, Sidewall sprinkler along with sprinkler alarm control valve.



5. MEDIUM VELOCITY WATER SPRAY SYSTEM (MVWS) & HIGH VELOCITY WATER SPRAY SYSTEM (HVWS)

- The HVWS & MVWS is developed in the area of 4.5m*5.5m for testing, training and design.



TRAINING DETAILS

1. One-day training, short-term training and long-term training will be provided for Fire & EHS.
2. Each batch will have 20-25 participants who will be trained by the Experts of the concerned topics.
3. The language of instruction & training is English/Hindi/Gujarati as per the requirements of participants/client.
4. The training program will also be provided to trainers or Senior Managements at advance level as desired by the client.
5. Each One-day Training program is scheduled for 8 hours with 4 hours of Classroom session & On Field session.
6. Customized training will also be provided to the companies/organizations as per the requirements.
7. Training scheduled Details & Outline of the program, Course Trainer details and course material will be shared with the participants.

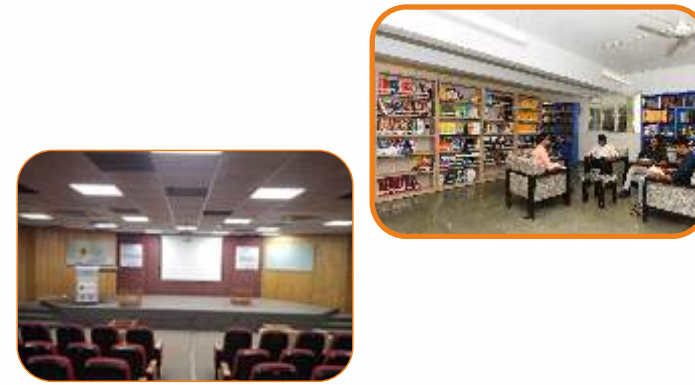


BENEFICIARIES

- 1) Chemical/petrochemical/Pharmaceutical, steel industries within and outside Vadodara (Inclusive of OIECR members)
- 2) City Fire brigades of Gujarat
- 3) Hospitals/Hotels
- 4) Airport
- 5) Railways
- 6) Education institutes
- 7) Malls & high rise shopping centers (Commercial buildings)
- 8) High rise residential buildings/apartments

INFRASTRUCTURE FACILITIES

GSFC University has proper infrastructure facilities available like library, Hostel (Boys & Girls), 150 seater auditorium and 40 seat capacity training hall with audio visual facilities.



FIRE & EHS LAB FACILITIES

GSFC University has 2 labs namely Fire lab & Safety lab equipped with more than 60 equipments & tools related to Fire & Safety in the Anviksha building- state of art building .



SAFETY LABORATORY

FIRE LABORATORY

COLLABORATORS & PARTNERS OF GSFCU

