

PRAKASH

Chemicals Agencies



ILLUMINATION

Issue : CII | Volume 102 | Date : 25th Mar, 2023

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world of chemistry*





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The chemical industry plays a critical role in the global economy, providing materials for various applications, from pharmaceuticals and plastics to electronics and energy.

Process safety is the discipline of preventing accidents and incidents in chemical processing plants through the design and implementation of safety systems and procedures. Process safety management (PSM) is a comprehensive approach to process safety that encompasses all aspects of a facility's operations, from design and construction to maintenance and decommissioning.

The need for process safety in the chemical industry is underscored by a history of catastrophic accidents, such as the 1984 Bhopal disaster in India, which killed thousands of people and injured hundreds of thousands more. Some important safety measures as per OSHA Guidelines are as under:

- 1. Hazard identification and risk assessment:** Identify potential hazards and assess their risks. Conducting a risk assessment helps identify the likelihood and severity of potential incidents, enabling the development of mitigation strategies.
- 2. Process design and engineering:** Use inherently safer designs that reduce the potential for hazardous incidents. This includes choosing appropriate materials, designing processes that minimize the potential for leaks, and ensuring that the system has adequate pressure relief.
- 3. Process control:** Use control systems to prevent accidents by maintaining safe operating conditions. Control systems can include alarms, interlocks, and automatic shutdown systems.
- 4. Employee training:** Ensure that all employees are trained on the hazards and risks associated with their job tasks. This includes training on how to operate equipment safely, how to respond to emergencies, and how to use personal protective equipment (PPE).
- 5. Maintenance and inspections:** Regularly inspect and maintain equipment to prevent malfunctions and ensure it is operating safely. This includes routine inspections, preventive maintenance, and testing.
- 6. Emergency response:** Establish an emergency response plan that outlines procedures for responding to incidents, evacuations, and medical emergencies. The plan should be regularly reviewed and updated as necessary.
- 7. Continuous improvement:** Continuously evaluate the effectiveness of the safety measures and make improvements as needed. This can include reviewing incident reports, conducting audits, and implementing corrective actions

In conclusion, process safety is a critical aspect of the chemical industry, essential for preventing accidents and protecting workers and the environment. The adoption of comprehensive process safety management practices can help ensure that the industry continues to provide essential materials while minimizing risks to workers and the community.

Mr. Jayesh Shah
Executive (Marketing)
Editor for the Month





Women's day Celebration at "Prakash House"



Mr. Nirav Mistry

Mr. Hardik Rajpara



Ms. Riddhi Panchal



Mr. Rahul Purswani



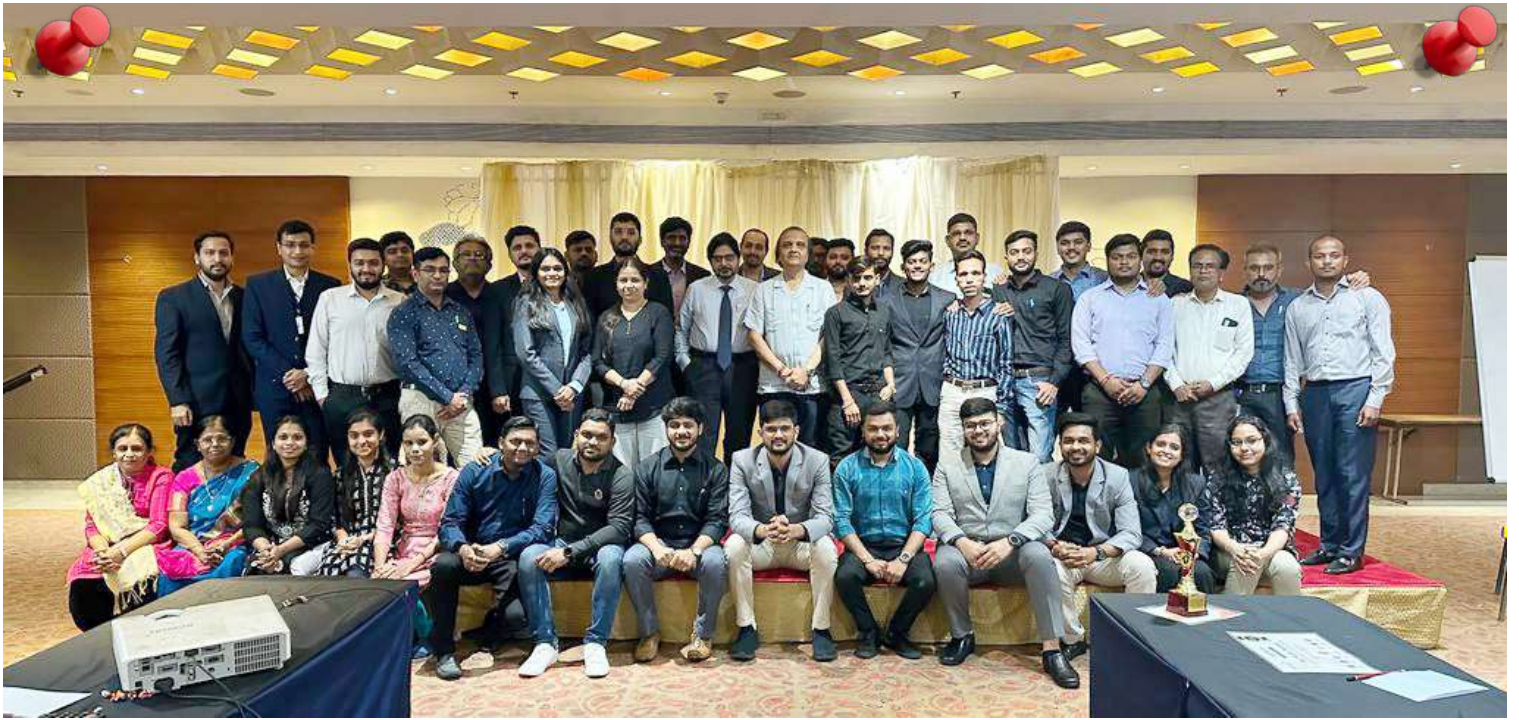
Ms. Miti Thakkar

Veterinary Boot Camp organized by VSPCA (Mr. Dilip Shah - Trustee)



VSPCA ORGANIZED A VETERINARY BOOT CAMP

VSPCA, Vadodara's leading non-profit making Animal Rescue and Treatment organization known for animal welfare for last 32 years recently organized a VETERINARY BOOT-CAMP" in association with Veterinary College, Anand Kamadhenu University by inviting all Pets and their owners to diagnose and treatment of dental diseases, eye diseases and skin diseases for pets (dogs and cats) at V.S.P.C.A, Vadodara. A total of 102 cases was diagnosed and treated. The program started by lighting the lamp by Trustee Dr Riddhiber Mehta, Dilipbhai Shah, and expert doctors of Anand Veterinary College. The diagnosis-treatment camp saw a unique confluence of dog squads of the City Police, dogs of the Rural Police and animal lovers.



Sport Awards 2022-23



Performance / Long term Service Awards 2022-23





Holi Celebration at Adopted Anganwadi Centers



Women's Day Movie Screening



Kishori Melo 2022-23



Kishor Ghoshti with School Students





- The Indian Speciality Chemicals Sector has experienced significant growth, expanding by more than 17% in the last two fiscal years, ending FY22.
- Gulbrandsen, a Global Specialty Chemicals Leader, has started production of Triethyl Aluminum (TEAL) at a new manufacturing facility located in Dahej, India, to meet increasing Global demand
- India Glycols Ltd. (IGL), a leading company manufacturing 'Green' technology based bulk, Specialty and Performance chemicals, has opened a new R&D centre at its Kashipur Site, Uttarakhand. The company operates a grain-based Bioethanol Plant at the Site.
- Adani Enterprises Ltd. (AEL) will review its plans to build a Coal-to-Polyvinyl Chloride (PVC) Plant in Mundra, Gujarat.
- Asian Paints (Polymers), a wholly-owned subsidiary of Asian Paints, has entered into a Memorandum of Understanding (MoU) with the Gujarat government to set up a manufacturing facility for Vinyl Acetate Ethylene Emulsion (VAE) and Vinyl Acetate Monomer (VAM) at Dahej.
- EID Parry (India), a Murugappa Group Company, plans to invest Rs. 87-crore in expanding Ethanol capacity at its Nellikuppam Unit in Tamil Nadu to capitalize on the Ethanol Blending Programme (EBP) opportunity.
- The Ban on single-use plastics (SUPs) in all health centres in Karnataka came into effect from February 1, 2023.
- Gujarat Alkalies and Chemicals Limited (GACL) has expanded the Caustic Soda Lye plant from 785 MTPD to 1310 MTPD of its Dahej Complex. As a part of the Caustic Soda expansion, a new 700 MTPD Caustic Evaporation Unit (CEU) was also commissioned to cater to the requirement of Caustic Soda Lye production (48% w/w).
- INOX India Pvt. Ltd. (INOXCVA), a Vadodara based manufacturer of Cryogenic Storage, re-gas and distribution systems for LNG, Industrial Gases and Cryoscientific applications, has announced the signing of a Memorandum of Understanding (MoU) with the Government of Gujarat to set up a new Cryogenic Tank manufacturing facility at Savli, Vadodara.
- Payal Group, a leading manufacturer of Plasticisers and Chlorinated Paraffins, has announced the inauguration of its 35-ktpa expansion of Chlorinated Paraffins capacity at its integrated Primary and Secondary Plasticizers manufacturing facility in Dahej, Gujarat.
- Paint Manufacturer Nippon Paint (India) Pvt. Ltd. Plans a foray into the 12,500 crore Construction Chemicals market as it eyes to expand the product portfolio.
- India holds an advantage over China in producing Speciality Chemicals and with "the whole world wanting to buy from India" the country has the potential to grow at least 30 times, says Deepak Birewar, Chairman, Inventys Research Company.
- Kanoria Chemicals & Industries Ltd. performed Bhumi Puja for setting up a new Formaldehyde Plant at its existing manufacturing facility at GIDC, Ankleshwar, Gujarat on February 23, 2023.
- Indian Oil Corporation (IOC) plans to establish three bitumen plants in Paradip (Odisha), Vadodara (Gujarat) and Barauni (Bihar) in the wake of growing demand for the product required for road construction.
- Aether Industries Ltd. has acquired and taken possession of a new industrial premises in Surat, Gujarat. The company will manufacture two new products in the Specialty Chemicals and Intermediates categories at the extended manufacturing Site.
- The government sponsored Plastics Export Promotion Council (PLEX CONCIL) has signed a Memorandum of Understanding (MoU) with Al Fajer, the organizers of ArabPlast, with the aim of boosting Plastic Trade between India and UAE.
- Researchers from the International Advanced Research Centre for Powder Metallurgy and New Materials (ARCI), an autonomous institute of the Department of Science and Technology (DST), have developed a Nanocomposite Coating (named ATL), which exhibits both Hydrophobic and Biocidal behaviour.
- India and the European Union (EU) have set up a new Trade and Technology Council (TTC), with a focus on trade, investment & value chains, digital economy and clean technology.
- Energy solutions company, CEF Group has signed an MoU with the government of Uttar Pradesh to setup multiple waste processing plants in various locations in UP to address the problem of waste mismanagement and augment bio-fuel production.

Rick was a young boy that was constantly angry at everything around him. He always fought in school with the other kids. His teachers couldn't say anything that would pacify the kid. And the parents of his schoolmates were getting concerned. The boy was earning quite the reputation. After talking with school officials, Rick's mom tried everything she can to calm Rick down. She tried different methods until one day she came home with a canvas and paint....."What's this?", Rick asked..... Rick's mom handed over the painting equipment and said, "Whenever you feel angry, paint whatever it is you're angry about instead of lashing out." Rick wasn't that happy about it but he gave it a shot anyway. Over the next few weeks, the young boy created several artworks. They mostly depicted disturbing images though. So his mom took all of the paintings and called Rick over so that they could talk about them.

"Tell me, Rick. What are these Paintings about?"

"Well, the first Painting is about how some of the kids show off their new clothes and gadgets. The next painting is about my teacher who keeps on telling me about how I'm doing things wrong. And the last Painting is about how one of my schoolmate's father suggested that I change my attitude. All of them make me so angry."

Rick's Mom, in a calm voice, took Rick by her side and told him:.. "Don't you see it, Rick?".. "See what?" "You're so angry at all of these things but not once did you try to understand why you're getting so angry. What have all these people done to you, really?" Rick thought about it. It slowly dawned on him that all of these people he was angry at didn't do anything wrong. The kids at school were showing off their good fortune but never teased him about being poor. It wasn't their fault they were richer than he was. His teacher might have scolded him but he was, admittedly, being a problem in class because of his attitude. And his schoolmate's father was only trying to help him correct his mistakes.

Not once did he try talking about what he was feeling with these people. He knew that his Mom hit all the nails in the head.

"I see it now, Mom. I was letting my bad temper control me instead of the other way around."

"That's right, son. You should do a better job of controlling anger before it consumes you. You're not a little boy anymore. You should know better by now." Rick nodded in agreement. His Mom went on:

"Next time you get angry, take a deep breath and walk away for a couple of seconds. And when you come back, talk to the person you're angry at. You might be surprised to find that all they're trying to do is help you to become a better person."

Rick took his Mom's advice and started to watch his actions. It took a while but eventually, Rick became less agitated over the simplest things. He even started to feel happiness when around other children.

MORAL OF THE STORY

Don't allow anger to take control of you. Instead, you should learn to control your anger by understanding where it's coming from and talking about your feelings with others.



Management skills and abilities refer to the necessary or beneficial skills in management positions. Communication, problem-solving, and team building are just a few examples. Management skills or managerial skills are gained through experience, training, education, or a combination of these. Good management skills are those that are effective at the workplace. They improve the efficiency of the workflow and help to build relationships within the team. Therefore, having good management skills and abilities can help the business to reach its goals and become successful.

Good management skills are usually related to communication, respect and value for the individuals on the team. Giving below some good management skills;

- **Patience** : It is the ability to tolerate delays, mistakes and mis-communications without responding angrily and emotionally. Patience is crucial for managers since they often train new employees and mentor current employees. This can improve the relationship between the Manager and those they supervise.
- **Empathy** : It is the ability to understand what others experience. When a manager has empathy, they can better understand what their employees need, treat them more kindly and create a more hospitable work environment.
- **Resourcefulness** : It is the ability to find the answer to a question or challenge by consulting the right resources and people.
- **Advocacy** : It is the willingness and ability to work for rights, tools, compensation, accommodations etc. and to fulfil the needs of employees to work successfully and live healthy lives inside and outside of their workplace.
- **Conflict Resolution** : It is one of the best skill to understand the solution and solve the conflicts to help people to collaborate more smoothly and encourage their team to get along with internal and external co-workers.
- **Adaptability** : It helps to easily modify the behaviour / management style when they experience new standards, requirements or environments at work. It also helps to adjust the changes in any part of the work. Managers can use adaptability to help their team quickly adjust to changes in any part of their work.
- **Emotional Maturity** : It is the ability to moderate negative or counterproductive emotions like fear, closed mindedness or anger. It can react calmly under pressure, communicate well with employees and can respond to challenges or set backs in a fruitful way.
- **Independence** : It is the ability to complete the tasks individually.
- **Curiosity** : It is the willingness and ability to learn new things. A manager who is curious can stay up-to-date with changes within their company as well as industry and can be more receptive to feedback from co-workers.

In short, Management skills and functions are an important attribute of an Organization that can make or break it.





PUZZLE YOUR MIND

Q1- Please give the missed number :

4 4 4
5 3 7 2 4
5 2 1 8 3 3 2
6 3 9 4 5
3 ? 9

Q2- I belong to everyone. But sometimes I make you happy, sometimes I make you sad and I will never end until the day you do. What am I ?

Q3- Put the characters C D M L X in the correct order (not alphabetical).

Q4- Find out the missing number

Q	T
3	7
V	P
3	8
O	X
3	??



**Answer to
the Puzzles of
February 2023**

Q1- 142

Q2 - A man with a wooden leg

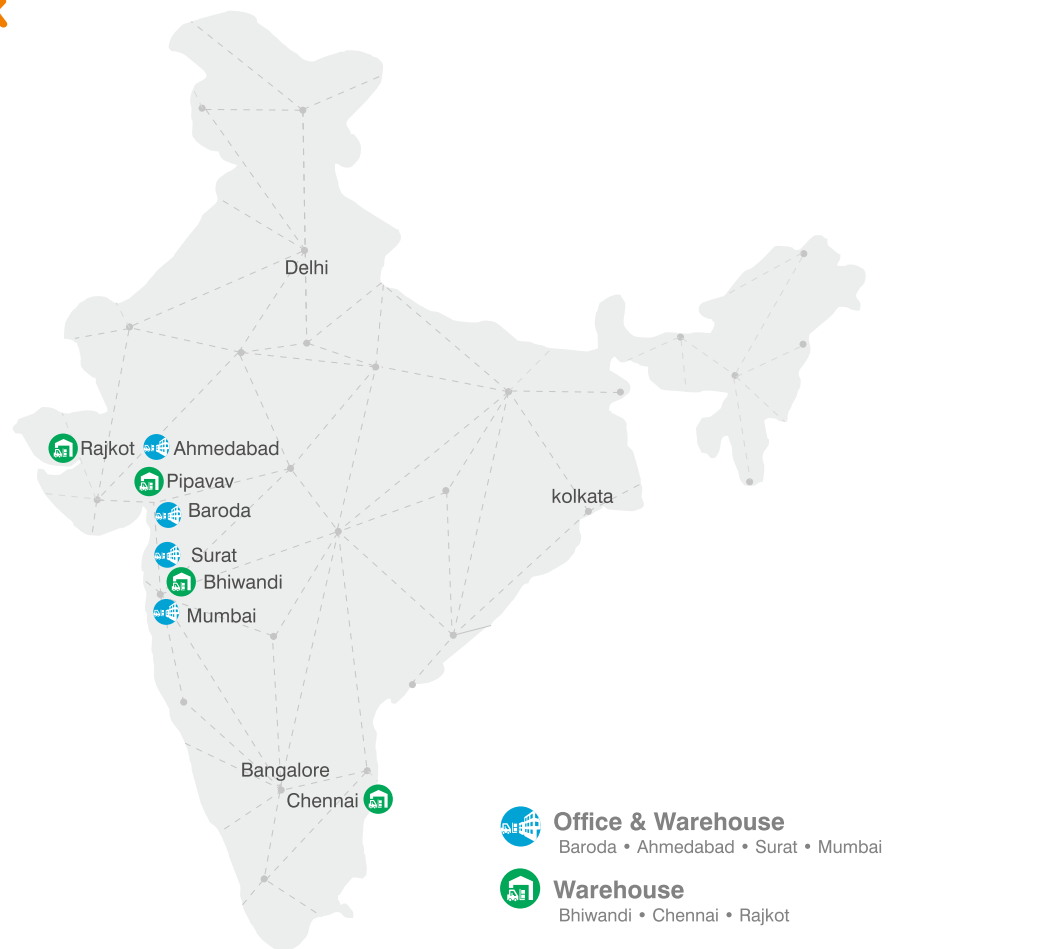
Q3 - Smoke

Q4 - 27

Q5 - An Axe

“
*The beauty of this night lies in its impermanence -
the light and dark shifting in a never-ending cycle,
teaching us the law of the universe and
that patience is key in life's journey.*

Our Network



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Accreditation



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