



# इंडोशन्युज़ INDOSHNEWS

कार्यस्थल पर सुरक्षा, स्वास्थ्य और पर्यावरण पर अर्द्ध वार्षिक समाचार-पत्र  
HALF YEARLY NEWSLETTER ON SAFETY, HEALTH AND ENVIRONMENT AT WORKPLACE



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Directorate General Factory Advice Service & Labour Institutes

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## MESSAGE

We take pride in bringing out the second issue of the "INDOSHNEWS" (July-December, 2021), the biannual official newsletter of DGFASLI.

We take the opportunity to welcome the Hon'ble Union Minister of Labour and Employment, Shri Bhupender Yadav Ji and the Hon'ble Union Minister of State for Labour and Employment, Shri Rameswar Teli Ji. Our hearty welcome to Shri Sunil Barthwal, IAS assumed charge as Secretary, Ministry of Labour and Employment on 23<sup>rd</sup> of September, 2021. Under the guidance of eminent leaders, we are sure that the Occupational Safety and Health of the workforce in India will be benefitted hugely.

Azadi Ka Amrit Mahotsav is an initiative of the Government of India to celebrate and commemorate 75 years of independence and the glorious history of its people, culture and achievements. This Mahotsav is dedicated to the people of India who have not only been instrumental in bringing India this far in its evolutionary journey but also hold within them the power and potential to enable the Honourable Prime Minister's vision of activating India 2.0, fuelled by the sprit of Aatmanirbhar Bharat. I am pleased to inform that DGFASLI is highly committed to this initiative, in sprit and truth, by organizing multiple activities to uphold the mission of a progressive India and contribute to the Vision of India 2.0. Awareness campaign on Occupational Safety and Health for the workers and supervisors are regularly being organized by the Central Labour Institute, Mumbai, Regional Labour Institutes at Chennai, Faridabad, Kanpur and Kolkata, and the Inspectorate Dock Safety offices of DGFASLI.

The salient features of the current issue are "DGFASLI SAFETY CARD" for Personal Protective Equipment, scientific articles discussing on Job Safety Analysis, Safe Handling of Containers, and Pesticide Toxicity & Recent Advancement in Biomonitoring for Organophosphate Toxicity. The information related to Training programmes, Workshops, Safety Audits and Work Environment Monitoring Studies conducted between July-December, 2021 by the Central and Regional Labour Institutes, under fatal and non-fatal injuries in the registered factories and port sectors for the period 2011-2019 are also presented in this newsletter. "OSH News" and safety posters have been presented for reference as a measure towards ensuring better occupational safety and health at workplaces.

I sincerely hope that the newsletter meets the expectations of all the stakeholders associated with the Occupational Safety and Health at workplaces.

  
(Dr R K Elangovan)

Place: Mumbai  
Date: 5.3.2022



***Shri Bhupender Yadav***

***Honourable Union Cabinet Minister  
Ministry of Labour & Employment  
and Environment, Forests & Climate Change  
Government of India***

Shri Bhupendra Yadav assumed the charge of Union Cabinet Minister for Labour & Employment and Environment, Forests & Climate Change on 8<sup>th</sup> July 2021. Shri Yadav is a Member of Parliament in the Rajya Sabha, representing the state of Rajasthan.



***Shri Rameswar Teli***

***Honourable Union Minister of State for Labour & Employment  
and Petroleum & Natural Gas  
Government of India***

Shri Rameswar Teli assumed the charge of Union Minister of State for Labour & Employment and Petroleum & Natural Gas on 8<sup>th</sup> July, 2021. He was earlier the Union Minister of State for Food Processing Industries. He is a Member of Parliament in Lok Sabha from Dibrugarh, Assam.



***Shri Sunil Barthwal, IAS***  
***Secretary, Ministry of Labour & Employment***

Shri Sunil Barthwal assumed the charge of Secretary of the Ministry of Labour & Employment, Govt. of India on 23<sup>rd</sup> September, 2021. Previously, he was Central Fund Commissioner, Employees' Provident Fund Organisation.

Shri Sunil Barthwal is an IAS officer of the Bihar cadre (1989 batch). He is a Postgraduate in Economics. He did his B.A. (Hons) Economics from St. Stephen's College, Delhi and his M.A. Economics from J.N.U, Delhi. He has a PG Diploma in Economics of Competition Law from King's College, London.

During his rich and varied experience as an IAS officer, he has held various administrative positions in the areas of Revenue Management, Rural Development, Energy & Power, Finance, Home Affairs, Transport, etc. in the State Government and in the Ministries of Labour, Mines, Steel & Finance in the Central Government. He has also worked for the Competition Commission of India, Ministry of Corporate Affairs. He has been on the Boards of SAIL, NMDC, MECON, MSTC & HCL.

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## The Code on Occupational Safety, Health and Working Conditions

The Government of India has enacted the 'Occupational Safety, Health and Working Conditions Code, 2020 (OSHC Code, 2020) which has been assented by the Hon'ble President of India on 28<sup>th</sup> September 2020. The OSHWC Code, 2020 intends to amalgamate, simplify, and rationalise the relevant provisions of the following thirteen Central labour enactments relating to occupation, safety, health and working conditions of workers. The salient features of the OSHWC Code, 2020 are:

- the flexibility in adapting technological changes and dynamic factors, in the matters relating to health, safety, welfare and working conditions of workers.
- to provide free of cost annual health check-ups for employees above the specified age in all or certain class of establishments by which it would be possible to detect diseases at an early stage for effective and proper treatment of the employees.
- to provide the concept of "one registration" for all establishments
- to constitute the National Occupational Safety and Health Advisory Board to give recommendations to the Central Government on policy matters, relating to occupational safety, health and working conditions of workers. Additionally, the OSHWC Code, 2020 also envisages the formation of a similar board at the state level ("State Occupational Safety and Health Advisory Board"), to advise the respective State Governments on such matters as may arise from the administration of the OSHWC Code, 2020 in the respective State.
- to employ women in all establishments for all types of work. They can work at night, that is, beyond 7 PM and before 6 AM subject to the conditions relating to safety, holiday, working hours and their consent.
- the OSHWC Code, 2020 increased the threshold to be recognised as a factory to (i) 20 workers for premises where the manufacturing process is carried out using power, and (ii) 40 workers for premises where it is carried out without using power.
- the OSHWC Code, 2020 defines a "hazardous process" as any process or activity in relation to specific industries where, unless special care is taken, raw/intermediate/finished/bye-products, etc., as the case may be, would cause material impairment to the health of the persons engaged in or connected herewith; or result in pollution of the general environment. The First Schedule of OSHWC Code, 2020 provides for a list of 40 such hazardous processes.

### What are the duties of employers under the OSHWC Code, 2020?

- New establishments covered by the OSHWC Code, 2020 must register themselves (within 60 days of commencement of the OSHWC Code, 2020) with registering officers appointed by the appropriate government.
- Every employer is directed to undertake the following obligations by the OSHWC Code, 2020.
- Ensure that the workplace is free from hazards can cause injury or occupational disease to the employees and comply with the OSHWC Code, 2020 and the government's directions on the same;
- Provide free annual health examination or testing, free of cost, to certain classes of employees;
- Provide and maintain, as reasonably practical, a working environment that is safe and without risk to the health of the employees.
- Issue letters of appointments to employees; and
- Ensure that no charge is levied on any employee for maintenance of safety and health at workplace, including the conduct of medical examination and investigation for the purpose of detecting occupational diseases.

Further, the OSHWC Code, 2020 directs employers with respect to factories, mines, dock work, building and other construction work, or plantations to ensure:

- (i) safety arrangements in the workplace and absence of risk to health in connection with the use, storage, and transport of articles and substances;
- (ii) provision of such information, instruction, training, and supervision as are necessary to ensure the health and safety of all employees at work, etc.



Similarly, the OSHWC Code, 2020 lays out that it is the duty of the architect, project engineer, or designer responsible for any building or construction work or the design of any project relating to such building, to ensure that due consideration is given to the safety and health of the building workers and employees involved in the construction, operation, and execution of such projects – at the planning stage itself.

The employer must provide a hygienic work environment with adequate ventilation, sufficient space (to avoid overcrowding), potable drinking water, arrangements for separate washrooms, etc. The OSHWC Code, 2020 also provides a uniform threshold for welfare provisions to be available at all establishments, such as a canteen, crèche, first aid, welfare officer, etc.

#### **What are the duties of employees as prescribed by the OSHWC Code, 2020?**

Every employee at the workplace shall:

- (i) take reasonable care for the health and safety of themselves and other persons who may be affected by their acts or omissions at the workplace;
- (ii) comply with the safety and health requirements specified in the standards;
- (iii) co-operate with the employer in meeting the statutory obligations of the employer under this OSHWC Code, 2020;
- (iv) if any situation which is unsafe or unhealthy comes to their attention, as soon as is practical, report such situation to their employer or to the health and safety representative.
- (v) not wilfully interfere with or misuse or neglect any appliance, convenience, or other thing provided at the workplace for the purpose of securing the health, safety, and welfare of workers;
- (vi) not do anything, wilfully and without reasonable cause, to endanger or potentially endanger themselves or others; and
- (vii) perform such other duties as may be prescribed by the appropriate government.

#### **What are the rights of employees under the OSHWC Code, 2020?**

The OSHWC Code, 2020 provides every employee the following rights:

- (i) Obtain from the employer, information relating to the employee's health and safety at work and communicate to the employer any concern regarding inadequate provision for protection of the employees safety or health in connection with the work activity in the workplace, and if not satisfied, to the inspector-cum-facilitator;
- (ii) If they have reasonable apprehension that there is a likelihood of imminent serious personal injury or death or imminent danger to health, they may bring this to the notice of the employer directly, and simultaneously bring the same to the notice of the inspector-cum-facilitator;
- (iii) The employee should note that once the existence of such imminent danger is established, the employer is obliged to take immediate remedial action and send a report of the action taken in response to the inspector-cum-facilitator; and
- (iv) Even if the imminent danger / apprehension about the same by the employee(s) is not accepted by the employer, the employer must refer the matter to the inspector-cum-facilitator whose decision on the question of the existence of such imminent danger shall be final.

# Pesticide Toxicity and Biomonitoring for Organophosphate Exposure

## Abstract:

Pesticides are chemical substance or mixture of substances intended for preventing, destroying, repelling, or mitigating pest (insect, rodent, nematode, fungus, weed, other forms of terrestrial or aquatic plant or animal life, or viruses or bacteria or other harmful living animals). Pesticide poisoning is one of the most common causes of chemical poisoning in occupational health domain. Acute intoxications from pesticides, worldwide, is responsible for no less than one million hospitalization per year and an estimated 300000 deaths annually. Among the all pesticides, insecticides especially organophosphates (OP) were found to be primarily responsible for poisoning cases. Assessment of OP exposure at earliest is of utmost importance. Conventionally it is assessed by measuring the reduction of the acetylcholinesterase activity in the erythrocytes and serum. Along with that different metabolites can be assessed in urine, blood, saliva, sweat. In recent years, state of the art techniques like Chromosomal Aberration, Sister Chromatid Exchange, Micronuclei formation, Comet Assay, Glycophorin A Assay has been under investigation for early Biological Effect Monitoring markers.

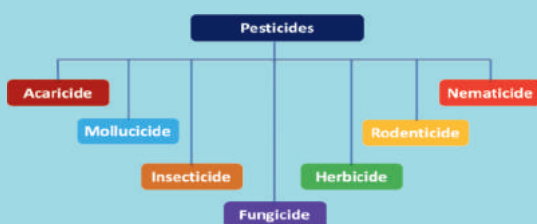
## 1. Introduction

Any substance or mixture of substances intended for preventing, destroying, repelling, or mitigating pest (insect, rodent, nematode, fungus, weed, other forms of terrestrial or aquatic plant or animal life, or viruses or bacteria or other harmful living animals), which the Environmental Protection Agency (EPA), EPA declares to be a pesticide. Any substance or mixture of substances intended for use as a plant regulator, defoliant, or desiccant. Pesticide poisoning is one of the most common causes of chemical poisoning in occupational health domain. It has been estimated that 1–3 per cent of agricultural workers in the world suffer in their lifetime due to this poisoning. Acute intoxications from pesticides, worldwide, is responsible for no less than one million hospitalization per year and an estimated 300000 deaths annually. Among the all pesticides, insecticides were found to be the causative agent in 49 % of poisoning cases.

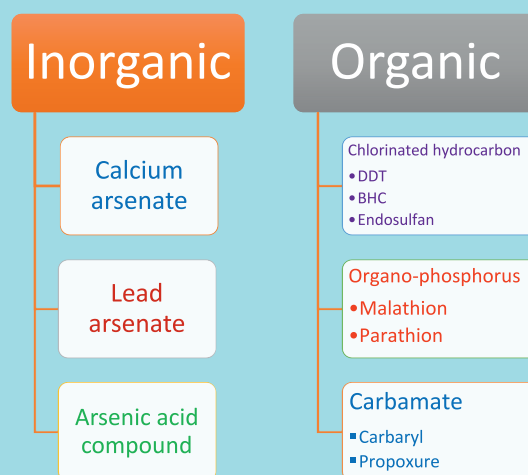
## 2. Classification of Pesticide:

Pesticides can be classified by different ways like depending on its target agent like insecticides, herbicides and fungicides etc. or its chemical composition.

### 2.1 Classification of Pesticides according to Target Agent



### 2.2 Classification of Pesticides according to Chemical Composition :



## 3. Mechanism of Pesticide Toxicity:

Mechanisms of action of different classes of pesticides are different and cannot be classified specifically.

- 3.1 Organophosphate which is one of most commonly used pesticide exert its toxicity by inhibiting an extremely important enzyme called acetylcholinesterase which hydrolyzes acetylcholine a neurotransmitter commonly available at neuromuscular synaptic junctions and cholinergic synapses in brain.
- 3.2 Some carbamates group of pesticides induce its toxicity by reactive oxygen species (ROS) mediated oxidative stress leading to neuronal damage, inactivate of certain important enzymes and ROS-induced oxidation of proteins and lipids resulting in neurotoxicity.
- 3.3 Some pesticides cause disruption of the endocrinal function by interfering with

formation, release, transportation, action, metabolism and elimination of hormones.

- 3.4 Pesticides can damage the DNA mainly by free radicals and ROS mediated modification of the genetic materials and responsible for genotoxicity which leads to diverse mutation.

**Example-2:** An operator is working in a noisy environment with 8-hour TWA noise exposure of 95 dBA. He is using a hearing protector (Earmuff) with NRR of 20.

So, Estimated, 8-hour TWA noise exposure in the ear =  $95 - [20 \times 0.7 - 3] = 84$  dBA, which is below the permissible exposure value (85 dBA) as per statutory norms.

#### 4. Health Effect of Pesticide Toxicity:

Acute Effect	Chronic Effect
<ul style="list-style-type: none"> <li>• Nausea</li> <li>• Vomiting</li> <li>• Vertigo</li> <li>• Dyspnoea</li> <li>• Blurred Vision</li> <li>• Lacrimation</li> <li>• Salivation</li> <li>• Abdominal pain</li> <li>• Sweating</li> <li>• Defecation</li> <li>• Urination</li> <li>• Damage to Liver and Kidney</li> <li>• Convulsion</li> <li>• Cardiac Arrhythmias</li> <li>• Coma</li> <li>• Death</li> </ul>	<ul style="list-style-type: none"> <li>• Impaired Memory</li> <li>• Fatigue</li> <li>• Skin Problems</li> <li>• Eye Irritation</li> <li>• Psychosis</li> <li>• Confusion</li> <li>• Irritability</li> <li>• Headache</li> <li>• Insomnia</li> <li>• Depression</li> <li>• Neuropathy</li> <li>• Tremor</li> <li>• Cardiovascular Problem</li> <li>• Respiratory problems</li> <li>• Carcinogenicity</li> <li>• Reproductive toxicity</li> </ul>

#### 5. Health Surveillance

- Pre-employment medical examination to detect allergies or medical conditions which can be exacerbated by pesticide exposure, and to establish a baseline for comparison in any further evaluation of the worker.
- Periodic medical examinations aimed at detecting any early specific adverse health effects attributable to the pesticide exposure.
- A medical examination after prolonged or repeated sickness absence to detect any significant change in health status which may compromise the ability to continue the assigned job, and to ensure that any illness is not pesticide related.

#### 6. Biomonitoring for organophosphate pesticides exposure: State of the Art

Human biomonitoring described as a systematic and continuous or regular repetitive activity for collection of any kind of biological samples like urine, blood, stool,

sweat, saliva etc. for analysis of any toxic substance or its metabolites or derivatives or specific biological parameters for immediate action with an objective to ascertain the exposure and adverse health effects due to its exposure, comparing the observed result with a evidence based reference level leading to preventive and corrective actions. Organophosphate pesticide enters into the body primarily by dermal absorption followed by inhalation and oral absorption.

#### 6.1 Biological Monitoring or Exposure Markers

- Intended to measure the dose that has been absorbed
- The route of exposure for most cases through skin and inhalation
- Biological monitoring has several limitations
  - Difficult choice of the sampling time due to the variability
  - The lack of biological exposure limits or reference values
  - Poor knowledge of the toxicokinetic
- **Urinary Markers:** Urinary measurements are specific compound or its metabolites within 24 hrs. of exposure is a useful tool for assessing exposure. Due to non-invasive sampling procedure and general abundance, urine is the choice of body fluid sample for exposure assessment. During interpretation, creatinine, specific gravity and other specific mass markers should also be determined to normalize the result for concentration and rule out over dilution. Metabolic products of various OP compounds are dimethyl thiophosphate (DMTP), dimethyl phosphate (DMP), diethyl phosphate (DEP), dimethyl-dithiophosphate (DMDTP), and diethyl-dithiophosphate (DEDTP). Alkylphosphates are excreted in urine as potassium or sodium salts. As the precise normal reference values of these metabolites have not been established yet, it is quite difficult to interpret the results in terms of risk assessment.
- **Blood Markers:** Measurement of the primary pesticide compound in the blood is one of the most specific markers of exposure to a specific compound but due to instability of the compound in the blood and complex measurement techniques, makes its applicability difficult. Another disadvantage is that collection of blood is an invasive technique. Blood also can be an important

medium for measuring adducts to albumin, DNA or hemoglobin. It also helps to determine the time elapsed after the exposure.

- **Saliva as a matrix:** Several studies have been piloted to evaluate assess the effectiveness and efficiency of saliva as a spot exposure identification tool. Due to ease of use, it has great potential as a biomonitoring tool for pesticide exposure assessment.
- **Sweat as a matrix:** Scientific studies are undergoing to establish a reference level that can be used to monitor total blood level of the toxic compound.
- **Enzymatic activity change:** Alteration in the activity of erythrocyte acetylcholinesterase (AChE) or Pseudocholinesterase (serum cholinesterase also known as butyryl cholinesterase (BuChE) are important marker for organophosphorus poisoning. AChE activity is more closely associated with the neuronal acetylcholine activity and consider more valid marker for OP poisoning. On the other hand, BuChE activity estimation has been recognized as a screening test for low levels of OP exposure in clinical work, as it can be measured in a easier and faster way than the RBCAChE. With regard to interpretation of results,
  - A reduction of 70% of the individual AChE baseline activity (30% inhibition) has been considered as a valid indication of OP exposure.
  - Since BuChE is more sensitive, but less specific, a 50% inhibition level has been suggested as a biological limit.
  - Cholinesterase activity in plasma or red blood cells in pesticide manufacturers or applicators
  - The greater the inhibition of the cholinesterase levels, the greater the extent of absorption of the pesticide
  - If activity is reduced to 30 per cent or more of the pre-exposure level, the test should be checked immediately, and removal of the individual from further exposure considered
  - Repeat monitoring should be at least 60 days interval
  - In cases of acute or suspected poisoning, both plasma and

erythrocyte enzymes should be measured

- Blood sample should be taken within three days of exposure.
- It is preferable to keep a blood sample for a couple of days under refrigeration after venepuncture
- Reference activity range :0.74 +/- 0.06 delta pH units/hour (One unit of AChE activity is the amount of enzyme that generates 1.0 nmol of Thiocholine per min. at pH 7.5 at room temperature)
- It is important that serial analyses should be performed by an established method in the same laboratory and subject to stringent quality control procedures
- Significant absorption of OPs is indicated if the percentage drop between successive estimations is:
  - Plasma AChE activity drop: 15 %
  - Erythrocyte AChE activity drop: 12 %

**Alteration of the Gene expression:** Recent scientific studies reveal that some OP compounds on the expression of TP53, a tumor suppressor gene in HepG2 cell line is higher in exposed cells compared to control cell.

## 6.2 Markers of early Biological Effect Monitoring:

- **Chromosomal Aberration (CA):** Recent evidence suggests that OP poisoning is causally associated with chromosomal aberration or genetic mutation like increased prevalence of t(14:18) translocation. Fluorescent in situ hybridization (FISH) technique can be used to detect different CA. "Chromosome Painting" technology is another efficient, but expensive, approach for identification of complex structural CA. Chromosome region-specific breaks probes are the cost-effective alternative to the 'chromosome painting' method.
- **Sister Chromatid Exchange (SCE):** This technology is based on interchange of DNA between replication materials. There is a positive correlation between frequencies of SCEs with pesticide exposure. Average number of SCEs per chromosome and proportion of high frequency cells were significantly higher in the OP exposed group compared to unexposed group.

- **Micronuclei (MN) formation:** Presence of micronuclei in peripheral blood lymphocytes is a good indicator of chromosomal damage. The distribution and frequency of micronuclei in the bone marrow cell can be used as an indicator for OP induced genotoxic effect.
- **Comet Assay:** Comet Assay, also known as single cell gel electrophoresis assay, is also an important tool to assess DNA/cytogenetic damage in OP exposed population. The sensitivity and specificity of the method can be increased if region specific enzymes are used to damaged area to DNA breaks
- **Glycophorin A Assay (GAA):** This method is mainly useful for quantitatively estimate phenotypically mutant RBC. It has been identified that OP exposed population had a higher mean hemizygous NØ frequency than those unexposed, as well as a higher NN frequency.

#### 7. Salient points in Medical Management of Organophosphate Poisoning:

- Symptoms may arise if 50 % of cholinesterase activity is inhibited
- Most life-threatening situation occurring at 90% or more inhibition
- Appropriate decontamination
- Supportive measures
  - Administration of oxygen, respiratory assistance
  - Removal of secretions from the respiratory tract
  - Maintenance of fluid balance
  - General symptomatic treatment, Activated Charcoal
  - Induces vomiting: Not Recommended
- Specific Antidote
  - Muscarinic antagonists : Reverse the muscarinic effects
  - Inj. Atropine
  - Oximes: Facilitate Dephosphorylation of the AChE Enzyme
    - Infusion Pralidoxime (PAM)
    - Not effective against Carbamate

- Benzodiazepines control some of the CNS effects
- Injection Diazepam

#### 8. Conclusion:

Any activity which involves either direct or indirect contact with pesticide constitutes a potential source of exposure. Most common route of toxicity is through dermal absorption followed by inhalation and ingestion. Manifestations of pesticide exposure depend on acute and chronic effects of systemic toxicity. Occupational history along with high level of clinical suspicion is required for provisional diagnosis of pesticide toxicity, especially chronic manifestations. Proper biomonitoring programme is essential for prevention of the toxicity and earliest possible diagnosis of significant exposure for appropriate treatment. Along with conventional techniques, some state-of-the-art genetic engineering-based techniques may be applied for this purpose. Further, in future with advancement of science and engineering with development of newer easy to use tools and techniques of biomonitoring will help us to precisely estimate the level of toxic substances like pesticide in the systemic circulation. Thousands of lives can be saved and quality of life can be improved every year by preventing pesticide toxicity with appropriate application of biomonitoring industries and other establishments.

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## Safe Handling of Containers

### Abstract:

*The Containerised Cargo handling is increasing worldwide. In India, the vast network of Major, Minor and Intermediate ports provides a large network for cargo movement. The increase in containerisation has given rise to the safety and health challenges. In order to ensure safety of the workers, it is essential to have safe system of handling containers and ensure that the containers are free from defects. The risk associated with the container handling is to be reduced and the workers are trained in safe handling.*

### 1. Introduction

Today India is one of the most developing economic and is emerging as a preferred hub for global trade activities. The port sector is poised to achieve the target of above 3.2 billion tonnes in capacity by 2020, as per the shipping ministry plan which focuses on adopting efficient technologies and enhancing the scope for private participation. With a coastline of more than 7,500 kilometres and with more than 190 ports, the country's maritime activities play a vital role in leveraging the economic growth index. The country presently has 12 major ports and about 190 non-major ports across its vast coastline. To meet the challenge of globally expanding maritime trade activities, the modernisation of ports is being upheld as an important aspect.

Cargo Handling with Container is on the increase and efficiency is now of paramount importance to both shipping lines and Ports. Operational practices, tools and industry paradigms are being tested by fundamental forces at every turn. Because of this, shipping lines and container terminals are developing innovative ways to achieve more reliability, connectivity and integration. In the near future, container terminals, and ports in general, will operate more like airports in terms of real-time management and in terms of cost, risk and contingency management. With over 90% of all cargo being delivered across the world's oceans, it is important to look at the emerging challenges for Safety and Health in handling of Containers in ports.

### 2. Types Of Containers:

There are many shipping containers that serve different purposes. The following are the most commonly used:

- 1) 10', 20', 40' dry storage container- These are some of the most common shipping containers. They are used for shipping dry goods that do not require temperature control.
- 2) Flat rack container- Flat rack containers are especially suitable for heavy loads and cargo

that needs loading from the top or sides. There are collapsible containers and non-collapsible containers with or without walls. Flat rack containers are manufactured from steel and come in 20' and 40' sizes.

- 3) Open top container- Open top containers do not have solid roofs instead they have removable bows and a weather proof tarpaulin roof which can be secured with ropes and allows for a significantly simplified loading and unloading process, the door header may also be swung out allowing for easier access to the cargo. Open top containers are ideal for bulky cargo such as machinery.
- 4) Tunnel container- Tunnel container storage containers come with doors on both ends of the container. They are very useful when quick loading and unloading of materials is required.
- 5) Open side storage container- These doors of this type of storage unit can be changed to form completely open sides having a side completely open side allows for the storage of much wide merchandise and easier loading.
- 6) Insulated and thermal container- These storage containers have a regulated temperature control allowing them to maintain a higher temperature to keep goods warmer.
- 7) Tanks- These are liquid storage containers. They are typically constructed of strong steel and other anti-corrosive materials to protect the liquid goods.
- 8) Double door container- Double doors make it easy for loading and unloading of the freight. Construction of this sort of shipping containers is typically made of steel and iron. They are available in standardized sizes of 40ft and 20ft.
- 9) Refrigerated ISO container- Refrigerated ISO freight container is one that is temperature regulated and always has a carefully controlled low temperature. These types of

units are used for the shipment of perishable substances like vegetables and fruits over long distances.

- 10) Special purpose containers- These containers can be different shapes and sizes and are often custom made for specific cargo.
- 11) Half height container- This container was designed for the transport of heavy, low volume cargo on ships and trains. The containers can also be used for vehicle transportation, or as a cargo platform for local transport of sand, gravel etc.
- 12) Car carriers- These are used for the transportation cars and automobiles.
- 13) Special Purpose- This are containers designed for special cargo depending upon size, shape and requirement.

### 3. Hazards associated with Handling of Containers:

Handling of containers involves a lot of safety precautions. Accidents may happen at any stage of a container's journey; many of these will be serious or fatal, including crushing and fall from height. The accidents may be caused by human error or failure of material handling equipments.

Some of the hazards while handling containers are:

#### I) Failure of Container :

Failure of Container can result in serious accidents. The containers because of continuous use may develop certain defects. Therefore, it is necessary to have regular inspection carried out, especially before the stuffing of containers in the yards. Some of the common failures are:

- Structural failure due to lack of proper maintenance, wear and tear.
- Structural failure due to overloading
- Structural wrongly declared weight, uneven or shifted loads

#### II) Handling Operations:

A lot of handling of the containers takes place in the inland container depots, container freight stations and ships. In order to avoid accidents, the containers must be handled using the right

equipments such as Spreaders. When handling the containers with Slings, the conditions of the slings and its strength should be taken into account. Some of the common failures due to incorrect handling are:

- Falls from height while working with containers
- Crush injuries during container manoeuvring and movements
- Exposure to fumigants
- Wrong declaration of materials.
- Un balanced stuffing of goods in containers
- Jammed Twist Locks
- Failures of Lifting Equipments and Tackles

#### III) Lashing of Containers

The process of securing containers is known as 'lashing', and is achieved by the use of metal lashing bars or rods hooked into the corner casting of the freight container, which are then connected to a threaded turn buckle or bottle screw attached to the vessel's structure. Tension can then be introduced into the lashing by way of rotating the turn buckle, thereby securing the container to the ship. The accidents during lashing are:

- Fall from height when working or passing near to unguarded edges.
- Slips, trips and falls whilst working on surfaces which may be uneven, unstable or slippery due to the presence of substances such as leaking cargo residues, oils, ice or water.
- Electrical hazards from damaged power cables to refrigerated containers.
- Being struck by lashing gear falling from the vessel.
- Being struck by falling lashing equipment or other objects.

How the risks can be reduced

The risks can be reduced by proper planning, having written down Safe Operating Procedures and Proper training of workers. The SOPs must be based on risk assessment and appropriate control measures put in place to protect against them.

The following will help in reducing the Risks:

#### A. Planning :

The operations should be planned and executed in a way so as to minimise risks to dockworkers, ship's crew and others. While the handling of containers is to a great extent routine, unique or unusual situations with additional or specific hazards may be encountered, and effective measures should be developed to resolve these or reduce the associated risks to a minimum. It is necessary to keep records in accordance with the provisions of the Dock Workers (Safety, Health and Welfare) Act 1986 and Regulations 1990.

The Planning for Dock workers safety should include:

1. The container yard should have a proper access and egress for both and container vehicles and the pedestrian.
2. The entry in to the yard should be restricted.
3. The containers storage and stowage should be planned. Different types of container such hazardous material containers, reefer containers, dangerous goods containers, leaking containers, etc. should be stowed in respective locations.
4. The container spreaders and lifting appliances should always be examined before use and it should be ensured that these are tested and certified by the competent persons as per the provisions of the Dock statutes.
5. The twist locks should be examined before use. No containers should be transported without using the twist locks.
6. The containers should not be lifted by using single or multi legged slings, only spreaders should be used for the purpose.
7. Workers may not be permitted to ride over spreaders / containers while handling at berth / yard.
8. Safe operating procedures for mobile equipment operation e.g. forklift trucks, cranes, straddle carriers, rubber tyred gantries, reach stackers, top lift loaders and similar equipment, as relevant may be developed and it should be ensured that the same are observed while handling containers.
9. When working at height on top of containers the employer must ensure that the employees are provided with a safe means of access and suitable fall protection or prevention controls. Access

to the tops of containers should be via a means of access in the ship's structure or by means of protected personnel platforms or cages in accordance with specified procedures for their use.

10. Where safety cages are provided, an adequate risk assessment must be carried out on the cage and the tasks being performed. The risk assessment should take account of the cage design, the system of work and training requirements. It should be ensured that the cage:

- Is thoroughly examined every 6 months.
- Has adequate protection including guard rails and toeboards to prevent people falling out, becoming entrapped or equipment falling on those working below especially in wet or windy conditions.
- Has a recessed upper guard rail within the outer dimensions of the cage or a hand rail inside the guard rail in order to prevent hands being trapped between the guard rail and the container or other objects; the handrail should be highlighted in a contrasting safety colour to the background so it is clearly visible and can be quickly found.
- Has storage boxes for twist-locks.
- The workers must be provided with fall protection such as Safety Harness.
- When engaging the workers to lash or unlash containers, it must be ensured that the employees concerned are trained, physically capable of carrying out the work, provided with all relevant information and that PPE is provided and safe systems of work used to ensure their safety.

11. While Handling Containerised Dangerous Goods, it is necessary to take precautions to prevent exposure of hazards to the workers entering the area. Dangers include spilled material, flammable, toxic or corrosive gases and vapours that displace oxygen. The same hazards may also be present in spaces adjacent to the cargo spaces.

12. Many a times the containerised cargo is incorrectly classified, there is poor package resulting in leaks, etc. To minimise the risks to the health and safety, while dealing with dangerous goods it should be ensured that:

- Containers and packages are in sound condition.



- Damaged or leaking packages are removed and are reported to the authority.
  - The workers wear the correct PPE and it must be ensured safety, first-aid and emergency procedures are in place.
  - The workers comply with confined space entry procedures.
13. Many of the accidents occur while carrying out manual handling of heavy container lashing and unlashings equipment. It is necessary to train the workers in:
- The correct manual handling procedures.
  - Lifting procedures when handling heavy lashing equipment.
  - Observing SOPs taking in to account dynamic environmental conditions.
14. Use of mobile phone must be prohibited while handling containers on board/on shore and driving of Container Trailers/Equipments and other vehicles.

#### **B. Maintaining Records:**

A record should be made of each container – with manifest showing stowage plan and the outcomes of any inspection and any other operational or environmental hazards observed.

#### **C. Freight Container Safety:**

Under the International Convention for Safe Containers (CSC), it is the responsibility of the container owner to ensure that containers are properly maintained and subject to periodic examination in accordance with procedures approved by the government of respect legislation of the countries.

Under Dock Workers (Safety, Health and Welfare) Regulations 1990, each freight container is required to display a Safety Approval Plate (CSC plate), detailing relevant safety information including country of approval, date of manufacture and maximum operating gross weight. The plate may also display the date of the next periodic examination.

#### **D. Defective Container:**

Defective containers or containers where the CSC plate is missing should be taken out of service. As per provisions under Regulation 85(14) of Dock Workers (Safety, Health and Welfare) Regulations 1990, all containers employed in dock work shall be tested,

inspected, maintained and approved by a competent authority.

#### **E. Lifting Equipment and Appliances:**

Before using the lifting equipment and appliances, the documentation must be checked to confirm that thorough examination and inspection of the lifting equipment and appliances have been carried out and they are safe for usage. As required under the provisions Regulation 40 of Dock Workers (Safety, Health and Welfare) Regulations 1990, all the lifting appliances shall be maintained in good repairs & working order. Similarly Lifting appliances & attached loose gears like spreaders shall be periodically tested and examined by competent person as per Regulation 40 & 47 respectively.

#### **F. Communication:**

Clear Communication must be maintained between all those involved in the lifting operation. Visual and voice communications from the signaller to the crane operator must be clear, agreed and understood. Where voice communication cannot be established then an agreed system for the use of hand signals must be followed, and also be in a position, wherever possible, where they can be clearly seen by the crane operator, especially in situations where the lifting operation requires the use of hand signals. In situations where the signal man cannot be seen, radio communications or two signal man should be employed.

The crane drivers should normally only accept instructions from one nominated person, whether by voice or through hand signals.

#### **4. Standards on Containers**

The Indian Standard pertaining to containers is IS 13288 (Part 4): 1993.

The International Standard for freight containers is ISO 6346. It describes the identification of a shipping container. The standard is maintained by the BIC (International Container Bureau) and covers the serial number, owner, country code, and size of any given shipping container.

It is important to understand the marking on the door of the containers. As per the ISO agreement of the year 1995, concerning container marking codes that would depict the length, height, and type of container in a short and easy to read sequence. This sequence is composed of four letters or digits. The first element of the sequence is about the length of the container with the most common codes being 2 (20-foot container) and 4 (40-foot container). The second element is about

the height of the container with 2 (standard height of 8 feet and 6 inches) and 5 (high cube container of 9 feet and 6 inches) prevalent. The third and fourth refer to the container type. G1 relates to a general container that has passive vents at the upper part of cargo space. R1 would be a mechanically refrigerated and heated container. U1 would be an open-top container with removable top members in end frames. P1 is a platform container with two complete and fixed ends. Finally, T1 is a tank container for non-dangerous liquids.

## 5. Conclusion

The handling of containers is very important operations. All persons involved in handling operations must be provided with adequate information, instruction, training and supervision. This is particularly important where casual and contract workers are employed.

Supervisors have an important role to play and should be trained, be competent and experienced in the safe lifting and handling practices associated with the handling of containers.

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# WORKPLACE SAFETY- AN ANALYSIS

## Abstract:

*A safe work environment is essential for both employee and employer. In any industrial Scenario Workplace Safety plays a vital role towards building management intent for enhancement of work culture. Even though the best practices and guidelines on safety are placed in the industry, it will not yield result, if the employees are not made aware about the benefits of following those practices. An unsafe condition may have potential of hampering the process, productivity and accident statistics in the industry. Most of the industrial accidents are resulted due to non-follow up of Workplace Safety management principles. Therefore, it is very much essential that all employees in the organization are made aware about the elements of workplace safety and are encouraged to follow the best practices. This article discusses in brief about the essential elements of management principles of workplace and safety tips to ensure all employees are engaged in developing a safety program that encourages the shared responsibility of everyone in the workplace.*

## 1. INTRODUCTION

Building and maintaining an OSH culture at the workplace is the need of the hour. An effective OSH culture in any organization has long term achievement in terms of reduced incident/ accident scenarios and increased productivity. There are various industrial activities where different types of hazards and risks are associated. It is necessary that such risks and hazards are addressed properly. However, it is important that good practices are implemented across all areas so that employees do not face unnecessary or uncontrolled risks while performing their jobs. Workplace safety refers to the working environment in an organization which incorporates all factors that impact the safety, health and well-being of employees. This can include unsafe working conditions or processes, environmental hazards and the possible ways to handle those situations in effective manner. The area of health and safety is subject to many laws and regulations and failure to comply with the law can leave business loss, increased accident graph thereby open to prosecution and countless financial, reputational, and practical consequences. By promoting best practices within any organization, both the employer and employees can prevent such scenarios.

## 2. Discussion

Employers have a legal duty to ensure that the health and safety of their employees, contractors and members of the public are not put at risk as a result of the work they do. Employees and the also have a duty to look after their own health and safety and that of anyone who might be affected by their work.

A safe and healthy workplace not only protects workers from injury and illness, it can also lower injury/illness costs, reduce absenteeism and turnover, increase productivity and quality, and thereby raise employee/ employer morale. In other words, safety is good for business. Plus, protecting workers is the right thing to do.

It refers to the limitation of elements that can cause harm, accidents, and other negative outcomes in the workplace. It represents an integration of policies, behaviours, and precautions that work to limit hazards, accidents, and other kinds of harm in a work environment. Workplace safety is linked to the safety culture of an organization. Developing a safety culture determines the employer/ management commitment, whereas managing the workplace safety relates to the employee responsibility. Safety culture in an organization is the system of work created by management intention, work practices and employee attitudes that exist in an organization and which shapes the workplace safety in an organization.

Frequently it is observed that bypassing the general practices of work, job-instruction or contravening the statutory guidelines result in to mishaps. Therefore, in such scenarios workplace safety management becomes much imperative.

### 2.1 Accident Statistics

The ILO industrial accidental statistics estimates that about 2.3 million women and men around the world succumb to work-related accidents or diseases every year; this corresponds to over 6000 deaths every single day. Worldwide, there are around 340 million occupational accidents and 160 million victims of work-related illnesses annually.

As per the detailed investigations about the major contributing factors of occupational accidents and diseases, and work-related near misses, injuries and deaths on a world-wide are:

- Diseases related to work cause the most deaths among workers. Hazardous substances alone are estimated to cause 651,279 deaths a year.
- The construction industry has a disproportionately high rate of recorded accidents.

- Younger and older workers are particularly vulnerable.

As per The Hindu Newspaper reports dated July 10, 2020, during 2014 to 2017, in India, cumulatively 8,004 incidents occurred due to workplaces killing 6,368 employees. Further, in most of the cases, the causes of industrial accidents are unsafe act and unsafe conditions.

The unsafe act can be dealt by eliminating -

- Unsafe practices while operating machinery and its maintenance
- Selection of proper tool for operation and maintenance
- Maintaining housekeeping
- Segregation of combustible and non-combustibles to prevent fire in cracker/matchbox industries and,
- Scheduling the training program of working personnel to enhance the knowledge & skill.

And, unsafe condition can be corrected by discouraging the risky behaviour, implementing control measures, consistent vigil at the work places, training, supervision, compliance to the statutory requirements, frequent safety inspections and compliance of recommendations.

## 2.2 Essentials of Workplace safety

Effective **safety communications** and consistent connectivity can be the key to saving lives. A workforce that is more distributed and more mobile than ever before, workers are facing extreme communication barriers. In order for a truly safety-centric workplace to be in effect, safety hazards, area guidelines, rules, regulations, warnings, goals, and progress reports must be made to employees. They must be communicated about the various aspects of Work-related hazard identification & its precautionary measures. In overall, they need to be communicated properly about the safe work practices. Further, an effective safety communication may make aware its employees to warn about eminent danger and proper usage of Personal protective equipment (PPEs), wherever needed.

**Leadership** not only exhibits personal safety behaviors, but inspires others to do the same. Safety leaders are the people who not only follow safety protocols to the letter, but speak up in a constructive way when they see that others could be doing something in a safer manner. Safety leaders don't necessarily have to be managers or supervisors. It can be anybody who has influence among the c-workers

and an interest in improving safety across the organization. A safety leader must be experienced enough about the process, procedures, take up the issues related to safety, reporting and encouraging others to follow safety pro-actively. An effective leadership can help the organization to develop a healthy work atmosphere by eliminating the unsafe act at workplaces too.

**Hazard identification & reporting** is the part of any critical industrial activity. This can be used to evaluate the workplace safety, if any particular situation, item, thing, etc. may have potential to cause harm. For any industrial activity, it is required that hazards and risk factors that have the potential to cause harm, must be addressed properly and determine appropriate ways to eliminate the hazard, or control the risk when the hazard cannot be eliminated. It may help to work as a team and include people familiar with the work area so as to enhance the workplace safety and boost the employee morale. It may help in eliminating the manual/ mechanical material handling risks and control strategies.

**Safety Organization** has a moral responsibility to ensure the safety and well-being of its employee. It has bound duties to warn its employees about imminent dangers and protect them through various awareness training programs, workplace inspection and audit, inviting suggestions, implementing the control methods and follow up plan.

**Documentation** plays a vital role in implementing workplace safety in any organization. It is a document to get back into history of any process and serves as a tool of fault finding. Therefore, an effective documentation plan depicts the safety management system of a premise. It helps to evaluate the process and improving the work culture. Sometimes, it is referred to be as a part of standardization of process and develop the setting of optimum parameter of a system as well as its maintenance plan. Also, it serves as the part of referral document to control the workers exposure and to develop the control method as part of dealing with critical operations.

## 2.3 Responsibility

Maintaining the Workplace is the joint responsibility of employee as well as employer. Where facilitating the safety provisions falls on account of employer at the same time maintaining the standard is the responsibility of employee.

### 2.3.1 Employer's Responsibility

In maintaining the workplace safety, the employer's responsibility plays a vital role in maintaining the safe

and healthy work culture within the establishment. It is sole responsibility of employer that to make sure that the workplace is safe and that anyone working in or visiting the workplace is not exposed to hazards or harmed by the work.

Identification and ensuring a safe workplace is the prime duty of employer. A safe and healthy workplace enhances the moral of employee working in the factory. As part of employer, the basic elements of Workplace safety management are:

- A. Provide and maintain a safe working environment including control frequency, pace and entry to high risk areas
- B. Providing safe systems of work
- C. Ensuring adequate hygienic conditions
- D. To ensure Safe, quality systems for work with machinery and equipment
- E. Ensuring all exits and fire exits are accessible at all times
- F. Imparting all employees with the adequate training, information, supervision and instruction to perform their work in a safe and healthy manner without any risk to their health
- G. Ensure appropriate safety measures regarding the storage or transport of materials or plant machinery
- H. Monitor employee's health and safety at work
- I. Maintaining all such relevant records pertaining to employee's health
- J. Provide appropriate first aid services and amenities
- K. Compliance to any legal regulations specific to workplace and nature of work
- L. Assign the responsibilities.
- M. Inspect the workplace regularly

### 2.3.2 Employee's responsibility:

When we talk about employees being responsible for their own well-being in the workplace, the base assumption is that the employer already meeting safety regulations. If this is not the case, this means a slight shift in the duties of employees. Health and safety non-compliance become something they need to discuss with management. As employees are the integral part of any factory establishment, along with employer, employees too must maintain a safe work practice. The in-bound duties of the employee can be summed up as:

- I. Observe, analyse and proceed about the task assigned

- II. Observe your tool/ equipment before and after the job.,
- III. Select proper tools for the job
- IV. Follow the instruction, as advised.
- V. Stick to the safe procedures.
- VI. Discuss the pros and cons of your job activities.
- VII. Assess the hazard at workplace, if any, bring into the notice of management.
- VIII. Maintain housekeeping and hygiene standard at workplace
- IX. Look for any failure or deficiencies
- X. Keep your tools and equipment at its designated place.

### 3. CONCLUSION:


Workplace safety is essential regardless of the size of a company. A work environment free from injuries and accidents is the vision of every employer. A safe work environment is essential for both employees and employers alike. Section 7(A) of Factory act 1948, it is the general duty of every employer to provide and maintain the plant and systems of work in the factory that are safe and without risks to health; Well-implemented safety measures keep employees safe and also protect industrial equipment. It is the responsibility and duty of employers to protect their employees and keep them safe.

It is not possible to measure the effects of human casualties. This is why workplace safety and health measures are necessary. They are essential for the well-being of employers and employees alike.

There are occupational safety and health risks in every company. Factors affecting workplace safety include unsafe working conditions, environmental hazards, substance abuse, and workplace violence. To combat these risks, employers should create strategies that ensure and promote safety in their workplaces. This will help increase productivity and the quality of the products and services in the organization. The workplace safety can be ensured by adopting the Hierarchy of Workplace safety. Responsibility of employer and employee needs to be assessed at their end and work in co-ordination

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## JOB SAFETY ANALYSIS

### ABSTRACT-

*Each & every day Number of People injured or killed in industries due to not taking adequate measure to control Hazard. Hazard is a source or situation that has potential to cause harm to people or Environment or property or combination of these. Numbers of Techniques and procedures used to identify hazard in which one most important Technique is Job Safety Analysis. Effective job safety Analysis procedures help to identify hazard and control them. Effective hazard identification procedures always help to control risk at work place. The paper indicates the positive impacts to prevent future harm to identify hazard in sub activity to break a particular activity of any process or construction / manufacturing industries, ensuring control measure and implementing them to reduce any types of harm. It focuses to hazard and control measure.*

**Keywords:** Job Safety Analysis (JSA), Hazard identification & Control Procedures, Risk Management

### 1. INTRODUCTION:

A Job Safety Analysis or Job hazard Analysis (JSA or JHA) is a procedure that helps integrate accepted safety and health principles and practices into a particular task or job operation. In a JSA, each basic step of the job is to identify potential hazards and to recommend the safest way to do the job. Other terms used to describe this procedure are job hazard analysis (JHA) and job hazard breakdown. Some individuals prefer to expand the analysis into all aspects of the job, not just safety. This approach is known as total job analysis. Methodology is based on the idea that safety is an integral part of every job and not a separate entity. In this document, only health and safety aspects will be considered. The terms 'job' and 'task' are commonly used interchangeably to mean a specific work assignment, such as 'operating a grinder', 'using a pressurized water extinguisher,' or 'changing a flat tire'. JSAs are not suitable for jobs defined too broadly, for example, 'overhauling an engine'; or too narrowly, for example, 'positioning car jack.'

The precept behind using JSA /JHA is that fatalities, accidents, and injuries can be reduced by working together and sharing safety knowledge. JSA/JHA is a basic approach to developing improved accident prevention procedures by documenting the first-hand experience of workers and supervisors and, at the same time, it tends to instill acceptance through worker participation. JSA/JHA can be a central element in a safety program; and the most effective safety programs are those that involve employees. Each worker, supervisor, and manager should be prepared to assist in the recognition, evaluation, and control of hazards. Worker participation is important to efficiency, safety, and increased productivity. Through the process of JSA/JHA, these benefits are fully realized. This process can begin by

- Involving employees/ workers participation.
- Reviewing accident history
- Conducting a preliminary job review
- Listing, ranking, and setting priorities for hazardous jobs
- Outlining the steps or tasks

Job Safety Analysis, commonly known as JSA and also called Job Hazard Analysis (JHA), is a process used to

determine the hazards of, and safe procedures for, each step of a job. A specific job, or work assignment, can be separated into a series of relatively simple steps. The hazards associated with each step can be identified and solutions can be developed to control each hazard.

### 2. BENEFITS OF DOING A JOB SAFETY ANALYSIS:

One of the methods used in this example is to observe a worker actually perform the job. The major advantages of this method include that it does not rely on individual memory and that observing or performing the process prompts the recognition of hazards. For infrequently performed or new jobs, observation may not be practical. One approach is to have a group of experienced workers and supervisors complete the analysis through discussion.

An advantage of this method is that more people are involved in a wider base of experience and promoting a more ready acceptance of the resulting work procedure. Members of the health and safety committee must also participate in this process. Initial benefits from developing a JSA will become clear in the preparation stage. The analysis process may identify previously undetected hazards and increase the job knowledge of those participating. Safety and health awareness is raised, communication between workers and supervisors is improved, and acceptance of safe work procedures is promoted.

A JSA, or better still, a written work procedure based on it, can form the basis for regular contact between supervisors and workers. It can serve as a teaching aid for initial job training and as a briefing guide for infrequent jobs. It may be used as a standard for health and safety inspections or observations. In particular, a JSA will assist in completing comprehensive accident investigations.

### 3. METHOD / PROCEDURE / RECOMMENDATION:

To perform a JSA/JHA, the following question should be asked:

- What can go wrong?
- What are the consequences?
- How could it happen?

- What are the contributing factors?
- How likely is it that the hazard will occur?

The answers to these questions will help in hazard identification.

(a) What are the four basic steps?

Four basic stages in conducting a JSA are:

- Selecting the job to be analysed
- Breaking the job down into a sequence of steps
- Identifying potential hazards
- Determining preventive measures to overcome these hazards

(b) What is important to know when 'selecting the job'?

Ideally, all jobs should be subjected to a JSA. In some cases there are practical constraints posed by the amount of time and effort required to do a JSA. Another consideration is that each JSA will require revision whenever equipment, raw materials, processes, or the environment change. For these reasons, it is usually necessary to identify which jobs are to be analysed. Even if analysis of all jobs is planned, this step ensures that the most critical jobs are examined first. Factors to be considered in setting a priority for analysis of jobs include:

**Accident frequency and severity:** Jobs where accidents occur frequently or where they occur infrequently but result in serious injuries.

**Potential for severe injuries or illnesses:** The consequences of an accident, hazardous condition, or exposure to harmful products are potentially severe.

**Newly established jobs:** Due to lack of experience in these jobs, hazards may not be evident or anticipated.

**Modified jobs:** New hazards may be associated with changes in job procedures.

**Infrequently performed jobs:** workers may be at greater risk when undertaking non-routine jobs, and a JSA provides a means of reviewing hazards.

(c) How do I break the job into basic steps?

After a job has been chosen for analysis, the next stage is to break the job into steps. A job step is defined as a segment of the operation necessary to advance the work. Care must be taken not to make the steps too general. Missing specific steps and their associated hazards will not help. On the other hand, if they are too detailed, there will be too many steps. A rule of thumb is that most jobs can be described in less than ten steps. If more steps are required, you might want to divide the job into two segments, each with its separate JSA, or combine steps where appropriate. An important point to remember is to keep the steps in their correct sequence. Any step which is out of order may miss

serious potential hazards or introduce hazards which do not actually exist. Each step is recorded in sequence. Make notes about what is done rather than how it is done. Each item is started with an action verb. Job steps are recorded in the left hand column.

This part of the analysis is usually prepared by knowing or watching a worker do the job. The observer is normally the immediate supervisor. However, a more thorough analysis often happens by having another person, preferably a member of the health and safety committee, participate in the observation. Key points are less likely to be missed in this way.

The job observer should have experienced and be capable in all parts of the job. To strengthen full cooperation and participation, the reason for the exercise must be clearly explained. The JSA is neither a time and motion study in disguise, nor an attempt to uncover individual unsafe acts. The job, not the individual, is being studied in an effort to make it safer by identifying hazards and making modifications to eliminate or reduce them. The worker's experience contributes in making job and safety improvements. The job should be observed during normal times and situations. For example, if a job is routinely done only at night, the JSA review should also be done at night. Similarly, only regular tools and equipment should be used. The only difference from normal operations is the fact that the worker is being observed. When completed, the breakdown of steps should be discussed by all the participants (always including the worker) to make that all basic steps have been noted and are in the correct order.

(d) How do I "identify potential hazards?"

Once the basic steps have been recorded, potential hazards must be identified at each step. Based on observations of the job, knowledge of accident and injury causes, and personal experience, list the things that could go wrong at each step. A second observation of the job being performed may be needed. Since the basic steps have already been recorded, more attention can now be focused on each potential hazard. At this stage, no attempt is made to solve any problems which may have been detected. To help identify potential hazards, the job analyst may use questions such as these:

Can any body part get caught in or between objects?

- Do tools, machines, or equipment present any hazards?
- Can the worker make harmful contact with moving objects?
- Can the worker slip, trip, or fall?
- Can the worker suffer strain from lifting, pushing, or pulling?
- Is the worker exposed to extreme heat or cold?
- Is excessive noise or vibration a problem?
- Is there a danger from falling objects?



- Is lighting a problem?
- Can weather conditions affect safety?
- Is harmful radiation a possibility?
- Can contact be made with hot, toxic, or caustic products?
- Are there dusts, fumes, mists, or vapours in the air?

Potential hazards are listed in the middle column of the worksheet, numbered to match the corresponding job step. For example: Again, all participants should jointly review this part of the analysis.

(e) How do I “determine preventive measures?”

The final stage in a JSA is to determine ways to eliminate or control the hazards identified. The generally accepted measures, in order of preference, are:

**Eliminate the hazard:** Elimination is the most effective measure. These techniques should be used to eliminate the hazards:

- Choose a different process
- Modify an existing process
- Substitute with less hazardous product
- Improve environment (e.g., ventilation)
- Modify or change equipment or tools contain the hazard

If the hazard cannot be eliminated, contact might be prevented by using enclosures, machine guards, worker booths or similar devices.

**Revise work procedures:** Consideration might be given to modifying steps which are hazardous, changing the sequence of steps, or adding additional steps (such as locking out energy sources).

**Reduce the exposure:** These measures are the least effective and should only be used if no other solutions are possible. One way of minimizing exposure is to reduce the number of times the hazard is encountered. An example would be modifying machinery so that less maintenance is necessary. The use of appropriate personal protective equipment may be required. To reduce the severity of an incident, emergency facilities, such as eyewash stations, may need to be provided.

In listing the preventive measures, do not use general statements such as “be careful” or “use caution”. Specific statements which describe both what action is to be taken and how it is to be performed are preferable. The recommended measures are listed in the right hand column of the worksheet, numbered to match the hazard in question.

(f) How should I make the information available to everyone else?

JSA is a useful technique for identifying hazards so that workers can take measures to eliminate or control hazards. Once the analysis is completed, the results must be communicated to all workers who are, or will

be, performing that job. The side-by-side format used in JSA worksheets is not an ideal one for instructional purposes. Better results can be achieved by using a narrative-style communication format.

#### 4. CONSIDER HUMAN PROBLEMS IN THE JSA/JHA PROCESS

While working with the middle column, “Potential Accidents or Hazards,” we also need to consider the following points related to human problems:

- What effects could there be if equipment is used incorrectly?
- Can the worker take shortcuts to avoid difficult, lengthy, or uncomfortable procedures?

Normally, the job steps for a JSA/JHA are listed in logical sequence. Some workers, however, may wish to change the sequence for one reason or another. For example, one operator may choose to check fluid levels before he does a general walk-around. This type of flexibility is good for worker morale and productivity. However, on the other hand, there are times when the sequences of the job steps or deviations from the job steps are critical to safe performance of the job. An example of this is that the walk around inspection must be made and safety deficiencies corrected before the machine is put into service for the day. It would not be safe or proper to do the walk-around inspection after the machine has been put into service.

**Job Safety Analysis Worksheet**

Sequence of basic job steps	Potential Accidents or Hazards	Recommended Safe Job Procedures

#### 5. CONCLUSION:

Job Safety Analysis (JSA) is a useful technique to identify hazards so that employees can take measures to control Risk. Once the analysis is completed, the results must be communicated to all employees who are, or will be, performing that job. It will help to aware employees and taking control measure as per JSA document. This Technique is most effective because we identify hazard sub-activity wise of selected activity and control risk on based on identification. Hazard may be control to eliminate them and If cannot be eliminated, then it might be prevented by using enclosures, machine guards, worker booths or similar devices. So Job Safety Analysis (JSA) techniques play major role to prevent future injury or losses to identify hazard in proper manner and controlling them.

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## Effective Leadership and Supervision for Enhancing Safety in Factory

### ABSTRACT-

Leadership is essential element of any industry management to set and achieve challenging goals without accident in industries. Taking swift action, exceptional performance and encourage other to perform efficiently are also important element of Leadership. Leadership provides accurate and proper direction for an industries or organization to achieve organizational safety goals. Leadership pathway followed by employees and accomplish goal of the organization. Safety leader always play significant role in safety performance of industries. Cultivating of safety culture in industries is sole responsibility of safety leaders. Safety leaders setting a positive example to workforce to follow, by being excited about safety, being motivated to learn new things to enhance safety in industries. Effective Supervision process has been found to reduce the risk, enhance work performance and increase job satisfaction. The objective of this article is to provide simple principle related to effective leadership and supervision in industries to enhance safety

### 1. INTRODUCTION:

Safety at workplace is responsibility of everyone irrespective of hierarchy in organization. It is one of the fundamental obligations of all the employees working in the organization. Everyone responsibility is to build decent workplace by following safety practices and procedures. Leadership and management of safety are prime importance of organization that are responsible for providing facilities and procedure to prevent man, machinery and working environment from accident. Effective and sustainable leadership and supervision must establish in organization to create decent workplace

### 2. Leadership values

Safety performance is driven by the safety leadership of the organization. Leaders establish values, develop procedures and enforce accountability. Core values of safety Leader are:

- a) Establishing an apparent vision towards Safety.
- b) Sharing the vision with teammates so that they will follow enthusiastically to achieve safety goals.
- c) Providing the information, knowledge and method to realize that vision.
- d) Coordination to all stakeholders to balance the conflict interests.
- e) Steps up in times of crises, and able to act creatively in different type of situation

### 3. Leadership ethics

Ethics deal with the purity of individuals and their intentions. Ethics serve as guidelines for analyzing "what is good or bad" in a specific scenario. Some core ethics are:

- Ability: - leader has a capacity to do something through talent and skill. Talent is natural

inherent quality and Skill could gain through experience.

- Adaptive: -leaders have quality to adapt situation as per requirement quickly in efficient manner.
- Empowers: - a leader inspires confidence and self esteem.
- Foster creativity: - Imaginative use of limited resources.
- Acts on a setting: - leader should be capable to adjust state of surrounding and people.

### 4. Characteristics of Effective Leadership

- a) Effective leadership requisite strong quality. Leaders demonstrate honesty, integrity, trustworthiness and moral values.
- b) Clear communication skill is character of effective leadership. Leader should exercise effective communication to obtain goal effectively.
- c) Productive leadership demonstrates optimism and provides constructive energy for workforce.
- d) Leader visualizes possible trends in the industries and ready to accountability and responsibility.

### 5. Supervision

Supervision is an accountable, two way process, which support, motivates and enables the growth of good practice for individuals. The purpose of the supervision process is to provide safe, supportive opportunity for individuals to engage in critical reflection in order to raise issues, explore problems and determine new means of managing both the circumstances and oneself.

Effective supervision affects industrial result and overall work environment. Good supervision is based on clearly defining the role of supervisors in industries

and ensuring supervisor has the requisite competencies to carry out their role effectively. Supervision is a workplace activity in which a manager oversees the activities and responsibilities of employees he manages. It is an important job function for manager at all levels throughout industries.

Supervisor common responsibilities are:-

- Developing work team and individual employee skill and capabilities.
- Motivating Employees
- Monitoring and providing feedback on day to day performance.
- Conducting formal Performance reviews
- Carrying out Disciplinary activity.

Supervisors are accountable ensuring that work unit goal and objective are achieved. Critical to fulfilling this responsibility is motivating workforce successfully accomplish assigned activities. Supervisor can use a number of motivation techniques, including

- Providing positive feedback on workforce achievement
- Assigning interesting and challenging work
- Providing effective guidance, support and training
- Recognizing and rewarding positive performance.
- Tailoring work assignment, rewards, and recognition to individual's workforce needs and desires.
- Leading by example.

## 6. CONCLUSION:

The evidence from research, study and experience are shown that effective safety leadership and supervision mitigate the number of accident in industries and develop safety culture in industries. If organization safety leaders follow discussed content in this article then definitely organization will experience lower incident rates and improved safety culture as well as spill-over benefits in quality, productivity, and asset integrity and cost savings.

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Government of India  
Ministry of Labour and Employment



# DGFASLI SAFETY CARD

## ENGINEERING WORK

### Personal Protective Equipment (PPE)

Engineering work is the most common work carried out in any type of industrial activities. A large number of industrial operations such as cutting, chipping, machining, brazing, grinding, buffing etc. are done in this field. Highest number of industrial accidents occurs in engineering work operations.

When engineering and administrative controls are not sufficient to minimize these risks to an acceptable level, the Personal Protective Equipment (PPE) is used as the last line in protecting workers. PPE does not eliminate the hazard at source but it works as a barrier between the person and the hazard.

To protect our body from any hazard/danger during engineering work, following PPE's should be used.



#### Head Protection

Head protection such as helmets, hard hats should be worn in the areas where there is a risk of injury to the head from impact from flying or falling objects at work place. Regular inspection of helmets should be carried out to maintain them in a safe & reliable condition. Replace the helmets immediately if found with dents, cracks, holes or deterioration.



#### Eye/face Protection

Suitable eye protection or face protection such as safety glasses, face shields, goggles and welding helmets should be worn when there is a hazard/danger to the eyes or face from flying particles, molten metal, chemicals, gases or vapors. Side protection is required when there is a potential hazard from flying objects.

PPEs should be durable, comfortable and easy to clean. The type of protection required should be determined by the type and degree of the hazard. PPEs should be inspected, cleaned and maintained.



#### Hearing Protection

Suitable ear plug/earmuff should be worn when there is a hazard/danger to the ear from excessive noise produced by machines or other equipment.

Remember! Plain cotton does not provide ear protection.



#### Respiratory Protection

Respiratory Protection such as dust mask, respiratory mask, gas mask etc should be used when there is a risk/hazard to the respiratory system from inhalation of dust, gas, fumes or mist containing hazardous substances.

Remember! Mask must fit properly and tightly.



#### Hand Protection

Hands are often exposed to accidental injury. Protective gloves should be worn when hands are exposed to hazards from skin absorption of harmful substances, cuts, lacerations, abrasions, punctures, chemical or thermal burns and extreme temperature.

The type of gloves used should be based on the nature of job, conditions present, duration of use, and potential of hazards.



#### Foot Protection

Foot protection such as safety shoes should be worn when there is a hazard/danger to injury to the feet from falling or rolling objects, objects piercing the sole of the foot, hot surfaces and slippery surfaces.



#### Fall Protection

To protect the worker against falling from height, recommended safety harness, belt, lanyards etc., should always be used in the prescribed manner.



#### Body Protection

When there is a hazard /danger from exposure of any part of the body from heat, splashes from hot metals and liquids, impacts, cuts, chemicals and radiation PPE such as Lab Coats, Boot Covers, Aprons, Bouffant Caps and Coveralls should be worn.

Always inspect your PPE before each use to make sure they are in good condition and are working properly.

Remember! PPE is the last line of defense for protecting workers.

### **Online Workshop on ‘Chemical Safety’ Organised by DGFASLI & DGUV on 25<sup>th</sup> August, 2021.**

Directorate General of Factory Advice Service and Labour Institutes (DGFASLI) has entered into a Memorandum of Understanding with the German Social Accident Insurance (DGUV), Germany with the objective of promoting Occupational Safety and Health at workplaces. As a part of the collaboration, an online workshop on ‘Chemical Safety’ for Inspectors of DGFASLI and Safety and Health professionals of major and minor ports was organized on 25<sup>th</sup> August, 2021.

The workshop’s objective was to share the national and international perspectives and latest developments in the following areas:

- Safety in Transportation, Storage, Handling and Processing of Chemicals
- Labelling and HAZCOM
- Emergency Procedures
- Static Electricity, Earthing and Bonding
- Process Safety Management

The workshop was attended by 118 participants comprising of officers of DGFASLI, representatives of State Chief Inspectorate of Factories, Safety and Health Professionals, representatives of Major and Minor ports with the technical support of German Social Accident Insurance (DGUV) and its partner institution BG BAU, Germany.

The workshop commenced with the welcome address of Dr R K Elangovan, Director General, DGFASLI wherein he welcomed the speakers and delegates to the workshop. Subsequently, the technical sessions of the workshop were handled by Mr. Rainer Dorr, BG BAU, Germany and Prof. Heinz Noetel, DGUV, Germany.

### **National Virtual Conference on “Occupational Safety and Health in Construction Industry” on 30<sup>th</sup> September, 2021**

The National virtual online conference on “OSH in construction industry” was held on 30<sup>th</sup> September 2022. The virtual national conference was organized by Directorate General Factory Advice Service and Labour Institutes (DGFASLI) with a view to focus on

the important issues in the construction industry and providing a forum for sharing of best practices on OSH in construction sector. The seminar was attended by more than 130 participants.

Six speakers shared their expertise and views on occupational safety and health in construction industry.

#### **Inaugural Session:**

The virtual conference was inaugurated by Dr R K Elangovan, Director General, DGFASLI. During inaugural speech, he welcomed the speakers & the delegates. He emphasised the importance of occupational safety and health in construction sector and informed the delegates that the DGFASLI has setup a ‘Construction Advisory Division’ and the conference was a first program organised by the division.

#### **Objective:**

The main objective of the conference was aimed at generating awareness and knowledge on occupational safety and health issues in the construction sector and also to provide a platform for sharing of best practices in the field.

#### **Highlights of Conference:**

The eminent speakers from construction industry discussed, deliberated and shared their experience on the following key topics for the benefit of the participants and stakeholders of construction site occupational safety and health:

- Statutes – OSH Code- Building and Other Construction Works Key considerations while doing risk assessment
- National Standards related OSH in Construction Industry
- Scaffolding and Working at Height
- Safety in Excavation
- Safety in High Rise Construction
- Occupational Health in Construction Industry

#### **Concluding remarks and the way forward:**

In his concluding remarks, Dr R K Elangovan, Director General, DGFASLI appreciated the delegates for their active participation and interaction during the conference. He also informed that the valuable inputs and suggestions made by the delegates would certainly facilitate organizing such conferences in future.

## 4.0 OSH WORKSHOP AND TRAINING PROGRAMMES

### Central Labour Institute, Mumbai



- One year Advance Diploma in Industrial Safety Course 2020-21 conducted by Industrial Safety division was successfully completed on 31<sup>st</sup> July, 2021. Twenty nine candidates from twenty nine organizations participated in the course.
- One year Advance Diploma in Industrial Safety Course 2020-21 conducted by Industrial Safety division commenced on 10<sup>th</sup> November, 2021. Forty two candidates from thirty three organizations participating in the course.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi ka Amrit Mahotsav) the Industrial Safety division conducted online awareness campaign for Industrial workers on 17<sup>th</sup> July, 2021. One hundred and fifty participants from L& T Hazira attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi ka Amrit Mahotsav) the Industrial Safety division conducted online awareness campaign for Industrial workers on 28<sup>th</sup> July, 2021. Sixty participants from Maharashtra State Power Generation Company (MAHAGENCO) attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi ka Amrit Mahotsav) the Industrial Safety division conducted online awareness campaign for Industrial workers on 4<sup>th</sup> August, 2021. Thirty four participants from Kirloskar India Limited attended the programme.
- Industrial Safety Division conducted a half day online training programme on "Measuring OSH Performance" on 9<sup>th</sup> August, 2021. Thirteen participants attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi ka Amrit Mahotsav) the Industrial Safety division conducted online awareness campaign for Industrial workers on 12<sup>th</sup> August, 2021. One hundred and eighty eight participants from Steel Authority of India Ltd. attended the programme.
- Industrial Safety division conducted a half day online training programme on "Accident Reporting & Investigation" on 12<sup>th</sup> August, 2021. Six participants attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi ka Amrit Mahotsav) the Industrial Safety division conducted online awareness campaign for Industrial workers on 20<sup>th</sup> August, 2021. Two hundred and seven participants from L&T Hazira attended the programme.
- Industrial Safety Division conducted a half day online training programme on "Injury Prevention & Loss Control" on 26<sup>th</sup> August, 2021. One participant attended the programme.
- Industrial Safety division conducted a half day online training programme on "Principles of Machine" on 1<sup>st</sup> September, 2021. Thirteen participants attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi ka Amrit Mahotsav) the Industrial Safety division conducted online awareness campaign for Industrial workers on 23<sup>rd</sup> September, 2021. One Hundred and thirty eight participants from Steel Authority of India Ltd. attended the programme.
- Industrial Safety Division conducted a half day online training programme on "Safety, Health & Environment at Workplace" on 28<sup>th</sup> September 2021. Two participants attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi ka Amrit Mahotsav) the Industrial Safety division conducted online awareness campaign for Industrial workers on 09<sup>th</sup> October 2021. One hundred and sixty four

participants from L&T Hazira attended the programme.

- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi ka Amrit Mahotsav) the Industrial Safety division conducted online awareness campaign for Industrial workers on 20<sup>th</sup> October 2021. Two hundred and fifty participants from Steel Authority of India Ltd. attended the programme.
- Industrial Safety Division conducted a half day online training programme on “Safety in working at height” on 22<sup>nd</sup> October 2021. Sixteen participants attended the programme.
- Industrial Safety Division conducted a half day online training programme on “Safe use of Lifting Machines and Lifting Tackles” on 29<sup>th</sup> October, 2021. Forty three participants attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi ka Amrit Mahotsav) the Industrial Safety division conducted online awareness campaign for Industrial workers on 03<sup>rd</sup> November, 2021. One hundred and fifty participants from M/s FL Smidth Pvt. Ltd. attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi ka Amrit Mahotsav) the Industrial Safety division conducted online awareness campaign for Industrial workers on 12<sup>th</sup> November, 2021. One hundred and fifty participants from M/s FL Smidth Pvt. Ltd. attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi ka Amrit Mahotsav) the Industrial Safety division conducted online awareness campaign for Industrial workers on 20<sup>th</sup> November, 2021. One hundred and fifty participants from L&T Hazira attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi ka Amrit Mahotsav) the Industrial Safety division conducted online awareness campaign for Industrial workers on 30<sup>th</sup> November, 2021. One Hundred and twenty three

participants from Steel Authority of India Ltd. attended the programme

- Industrial Safety division conducted a half day online training programme on “Industrial Hazard, Accidents and Remedial Action” on 26<sup>th</sup> November, 2021. Three participants attended the programme.
- Industrial Safety division conducted a half day online training programme on “Statutory provision on Accident reporting at Workplace” on 29<sup>th</sup> November, 2021. Two participants attended the programme.
- Industrial Safety division conducted a half day online training programme on “Statutory provision on Accident reporting at Workplace” on 29<sup>th</sup> November, 2021. Two participants attended the programme.
- Industrial Safety division conducted a half day online training programme on “Safety Health & Environment at Workplace in Hazard Process Industry” on 21<sup>st</sup> December, 2021. One participant attended the programme.
- Industrial Safety division conducted a half day online training programme on “Safety in use of Machine Tools” on 22<sup>nd</sup> December, 2021. Two participants attended the programme.
- Industrial Safety division conducted a half day online training programme on “Safety Management System” on 23<sup>rd</sup> December, 2021. One participant attended the programme.
- Industrial Safety division conducted a half day online training programme on “Safety Health and Environment for Safety Officers” on 29<sup>th</sup> December, 2021. Seven participants attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi ka Amrit Mahotsav) the Industrial Safety division conducted online awareness campaign for Industrial workers on 1<sup>st</sup>, 2<sup>nd</sup>, 6<sup>th</sup> and 08<sup>th</sup> December, 2021. Two hundred and ten participants from M/s FL Smidth Pvt. Ltd. attended the programme.

- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi ka Amrit Mahotsav) the Industrial Safety division conducted online awareness campaign for Industrial workers on 17<sup>th</sup> December, 2021. Two hundred and forty four participants from various factories located in Kolhapur & Satara Districts attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi ka Amrit Mahotsav) the Industrial Safety division conducted online awareness campaign for Industrial workers on 19<sup>th</sup> December, 2021. One hundred and fifty participants from L&T Hazira attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Staff Training & Productivity division conducted Awareness programme on "Importance of leadership commitment, employee engagement & communication management & communication in safety management" on 13<sup>th</sup> July, 2021, Two hundred sixty one participants attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Staff Training & Productivity division conducted Awareness programme on OSH on 8<sup>th</sup> July, 2021. Thirty participants attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Staff Training & Productivity division conducted awareness programme on "Occupational Health, Safety and Environment" on 4<sup>th</sup> August, 2021, One hundred twenty three participants attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Staff Training & Productivity division conducted Awareness programme on "Behavior Based Safety" on 30<sup>th</sup> August, 2021. One hundred fifty two participants attended the programme.
- Staff Training & Productivity division conducted half day online training programme "Improving Occupational safety and health through effective employee participation" on 13<sup>th</sup> August, 2021. One participant attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Staff Training & Productivity division conducted Awareness Programme on "Occupational Safety & Health" on 23<sup>rd</sup> August, 2021. Sixty one workers participated in the programme
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Staff Training & Productivity division conducted Awareness Programme on "Occupational Safety & Health" on 25<sup>th</sup> August, 2021. Ninety one participants attended the programme.
- Staff Training & Productivity division conducted a half day online training programme on "Motivation for OSH on 5<sup>th</sup> August, 2021. Two participants attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Staff Training & Productivity division conducted Awareness programme on OSHE on 3<sup>rd</sup> September, 2021. Seventy two participants attended the programme
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Staff Training & Productivity division conducted Awareness programme on OSHE on 24<sup>th</sup> September, 2021. One hundred thirty participants attended the programme.
- Staff Training & Productivity division conducted a half day online training programme on "Improving Occupational Safety & Health by employee" on 17<sup>th</sup> September, 2021. Seven participants attended the programme.
- Staff Training & Productivity division conducted a half day online training programme on "Enhancing Safety Culture through effective communication on 21<sup>st</sup> September, 2021. Six participants attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Staff Training & Productivity division conducted Awareness Campaign for workers on 23<sup>rd</sup>



- September, 2021. Seventy participants attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Staff Training & Productivity division conducted Awareness Campaign for workers on 27<sup>th</sup> September, 2021. One hundred participants attended the programme.
  - To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Staff Training & Productivity division conducted Awareness programme on OSHE on 5<sup>th</sup> October, 2021. Twenty nine participants attended the programme.
  - To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Staff Training & Productivity division conducted Awareness programme on OSHE on 6<sup>th</sup> October, 2021. Forty one participants attended the programme.
  - To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Staff Training & Productivity division conducted Awareness programme on OSHE on 27<sup>th</sup> October, 2021. Thirty two participants attended the programme.
  - To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Staff Training & Productivity division conducted Awareness programme on OSHE on 29<sup>th</sup> October, 2021. One hundred thirty five participants attended the programme.
  - To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Staff Training & Productivity division organized and conducted Awareness Programme on OSHE on 29<sup>th</sup> October, 2021. One hundred eleven participants attended the programme.
  - To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Staff Training & Productivity division organized and conducted Awareness programme on OSHE on 9<sup>th</sup> November, 2021. One hundred thirty five participants attended the programme.
  - To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Staff Training & Productivity division conducted Awareness programme on OSHE on 10<sup>th</sup> November, 2021. Two hundred fifty participants attended the programme
  - To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Staff Training & Productivity division conducted Awareness programme on OSHE on 11<sup>th</sup> November, 2021. Seventy two participants attended the programme.
  - Staff Training & Productivity division conducted a half day training programme on 25<sup>th</sup> November, 2021 on Working at Height. Eight participants attended the programme.
  - Staff Training & Productivity division organized a seminar for officers, Diploma students and staff on "About the Constitution and Articles related to OSHE" on 26<sup>th</sup> November, 2021 as a part of Savidhan Diwas Celebrations.
  - To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Staff Training & Productivity division conducted Awareness training for workers on 29<sup>th</sup> November, 2021. One hundred fifteen participants attended the programme.
  - To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Staff Training & Productivity division conducted Awareness Training for construction workers on 30<sup>th</sup> November, 2021. One hundred sixty five participants attended the programme.
  - To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Staff Training & Productivity division conducted Awareness programme on OSHE on 3<sup>rd</sup> December, 2021. One hundred fifty participants attended the programme.
  - To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Staff Training and Productivity division conducted Awareness programme on OSHE on 7<sup>th</sup> December, 2021. Fifty two participants attended the programme.

- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Staff Training & Productivity division conducted Awareness programme on OSHE on 10<sup>th</sup> December, 2021. Three hundred and five participants attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Staff Training & Productivity division conducted Awareness programme on OSHE on 27<sup>th</sup> December, 2021. One hundred fifty four participants attended the programme.
- Staff Training & Productivity division conducted half day online training programme “Role of Safety, Health and Environment to improve productivity and Quality” on 30<sup>th</sup> December, 2021. One participant attended the programme.
- Staff Training & Productivity division conducted half day online training programme “Behavioural Based Safety – A proactive approach to injury prevention” on 31<sup>st</sup> December, 2021. Five participants attended the programme.
- Industrial Hygiene division conducted a half day online training programme on “Principals of Industrial Hygiene” on 2<sup>nd</sup> November, 2021. Eight participants from five organizations attended the programme.
- Industrial Hygiene division conducted a half day online training programme on “Awareness of Industrial Hygiene” on 30<sup>th</sup> November, 2021. Ninety three participants from six organizations attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi ka Amrit Mahotsav) the Industrial Hygiene division conducted Awareness Training Programme for Shop floor in the Industry on 14<sup>th</sup> December, 2021. Eighteen participants attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi ka Amrit Mahotsav) the Industrial Hygiene division conducted Awareness Training Programme for Technical staff of WWM, Hyderabad on 29<sup>th</sup> December, 2021. Four participants attended the programme.
- Major Accident Hazards Control Advisory division conducted a half day online training programme on “Onsite Emergency Planning for Hazardous Factories” on 6<sup>th</sup> July 2021. Fifty participants from twenty five organisations attended the programme.
- Major Accident Hazards Control Advisory division conducted a half day online training programme on “Offsite Emergency Planning for Hazardous Factories” on 12<sup>th</sup> July, 2021. Twenty two participants from eleven organisations attended the programme.
- Major Accident Hazards Control Advisory division conducted a half day online training programme on “Onsite Emergency Planning in Hazardous Factories” on 2<sup>nd</sup> August 2021. Twenty eight participants from eight organizations attended the programme.
- Major Accident Hazards Control Advisory division CLI Mumbai conducted a half day Online training programme on “Management of Hazardous Chemicals” on 6<sup>th</sup> August, 2021 .Eight participants from eight organizations attended the programme.
- Major Accident Hazards Control Advisory division conducted a half day online training programme on “Chemical Emergency Preparedness” on 20<sup>th</sup> September, 2021. Forty participants from twelve organizations attended the programme.
- Major Accident Hazards Control Advisory division conducted a half day online training programme on “Major Accident Hazards Control” on 24<sup>th</sup> September, 2021. Forty nine participants from fourteen organisations attended the programme.
- Major Accident Hazards Control Advisory division conducted a half day online training programme on “Disaster Management in Chemical Industry” on 18<sup>th</sup> October, 2021. Thirty three participants from fourteen organizations attended the programme.
- Major Accident Hazards Control Advisory division conducted a half day online training programme on “Chemical Safety at Workplace” on 29<sup>th</sup> October, 2021. Thirty two participants from nineteen organizations attended the programme.
- Major Accident Hazards Control Advisory division conducted a half day online training programme on

- “Chemical Risk Reduction Strategies” on 26<sup>th</sup> November, 2021. Ten participants from three organizations attended the programme.
- Major Accident Hazards Control Advisory division conducted a half day online training programme on “Control of Industrial Major Accident Hazards Rules” on 30<sup>th</sup> November, 2021. Twenty four participants from thirteen organizations attended the programme.
  - Major Accident Hazards Control Advisory division conducted a half day online training programme on “Statutory Framework-Major Accident Hazards Control” on 6<sup>th</sup> December, 2021. Five participants from two organizations attended the programme.
  - Major Accident Hazards Control Advisory division conducted a half day online training programme on “Prevention and Control of Major Hazards in Industries” on 10<sup>th</sup> December, 2021. Twenty five participants from seven organizations attended the programme.
  - Major Accident Hazards Control Advisory division conducted a half day online training programme on “Hazard Identification and Risk Assessment in MAH Industries” on 14<sup>th</sup> December, 2021. Twelve participants from four organizations attended the programme.
  - RTL/NRTL conducted a half day online training programme on Assessment of chemical exposure in work environment on 1<sup>st</sup> July, 2021. Six participants from six organizations attended the programme.
  - RTL/NRTL conducted a half day online training programme on Fall Protection and Prevention on 5<sup>th</sup> July, 2021. Nine participants from nine organizations attended the programme.
  - RTL/NRTL conducted a half day online training programme on Dust Hazards – Prevention and Protection on 24<sup>th</sup> August, 2021. Nine participants from nine organizations attended the programme.
  - RTL/NRTL conducted a half day online training programme on Personal Protective Equipment – Eye & Face Protection on 25<sup>th</sup> August, 2021. Fourteen participants from three organizations attended the programme.
  - RTL/NRTL conducted a half day online training programme on Concept of Industrial Hygiene on 16<sup>th</sup> September 2021. Five participants from five organizations attended the programme.
  - RTL/NRTL conducted half day online Training programme on Personal Protective Equipment – in Construction Sector on 23<sup>rd</sup> September, 2021. Five participants from five organizations attended the programme.
  - RTL/NRTL conducted a half day online training programme on Hazards in Welding Operation on 14<sup>th</sup> October, 2021. Twelve participants from eleven organizations attended the programme.
  - RTL/NRTL conducted a half day online Training Programme on Personal Protective Equipment – Head Protection on 27<sup>th</sup> October, 2021. Three participants from three organizations attended the programme.
  - RTL NRTL conducted a half day online training programme on Respiratory protection in Industry on 18<sup>th</sup> November, 2021. Twelve participants from three organizations attended the programme.
  - RTL/NRTL conducted a half day online training programme on Industrial Hygiene Techniques on 25<sup>th</sup> November, 2021. Nine participants from five organizations attended the programme.
  - RTL/NRTL conducted a half day online training programme on “Role of Safety Committee Members for proper use of PPE” on 7<sup>th</sup> December, 2021. Three participants from three organizations attended the programme.
  - RTL/NRTL conducted a half day online training programme on Gases and vapors exposure in Industry – Prevention and protection on 13<sup>th</sup> December, 2021. Three participants from three organizations attended the programme.

#### **Respiratory Testing Laboratory (RTL)**

- RTL is equipped with equipment/instruments for testing of different respiratory personal protective equipment like dust respirator, breathing air cylinders etc. RTL has tested a total number of 48 nos. Breathing air cylinders and 06 nos. of

dust masks for the period from July to December, 2021.

#### **Non-Respiratory Testing Laboratory (NRTL)**

- NRTL is equipped with equipment / instruments for testing of different non respiratory personal protective equipment like safety helmets, safety shoes, safety goggles, safety belts, safety gloves etc. NRTL has tested a total number of 16 nos. safety helmets, 17 nos. safety goggles, 5 nos. safety hand gloves, 18 nos. safety shoes, 7 nos. safety belts and 4 nos. clothing for the period from July to December, 2021.

#### **Regional Labour Institute, Chennai**



- Industrial Safety division conducted a half day online training programme on “Safety Management System” on 12<sup>th</sup> July, 2021. Twelve participants from ten organizations attended the programme.
- Industrial Safety division conducted a half day online training programme on “Safe Material Handling in Industries” on 14<sup>th</sup> July, 2021. Nine participants from eight organizations attended the programme.
- Industrial Safety division conducted a half day online training programme on “Safety Audit” on 15<sup>th</sup> July, 2021. Twelve participants from nine organizations attended the programme.
- Industrial Hygiene division Conducted a half day online training programme on “Health Hazards and Workplace Monitoring in Welding Operations” on 22<sup>nd</sup> July, 2021. One participant from one organization attended the programme.
- Industrial Safety division conducted a half day online training programme on “Safety in Handling of Hazardous Chemicals” on 28<sup>th</sup> July, 2021. Four participants from four organizations attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety division conducted a half day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 28<sup>th</sup> July, 2021. Fifty participants from one organization attended the programme.
- Industrial Safety division conducted a half day online training programme on “Transport Safety at Workplace” on 29<sup>th</sup> July, 2021. Seventeen participants from four organizations attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Hygiene division conducted a half day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 29<sup>th</sup> July, 2021. Fifteen participants from one organization attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsava) the Industrial Medicine division conducted a half day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 30<sup>th</sup> July, 2021. Forty participants from one organization attended the programme.
- Industrial Safety division conducted a half day online training programme on “Forklift Safety” on 30<sup>th</sup> July, 2021. Eleven participants from six organizations attended the programme.
- Industrial Medicine division conducted a half day online training programme on “Health Issues in Welding Operations” on 30<sup>th</sup> July, 2021. One participant from one organization attended the programme.
- Industrial Safety division conducted a half day online training programme on “Enhancing Safety

Culture through Effective Communication” on 3<sup>rd</sup> August, 2021. Seven participants from four organizations attended the programme.

- Industrial Safety division conducted a half day online training programme on “Material Handling & Conveyor Safety” on 4<sup>th</sup> August, 2021. Two participants from two organizations attended the programme.
- Industrial Safety division conducted a half day online training programme on “Crane and Rigging Safety” on 6<sup>th</sup> August, 2021. Twenty one participants from twelve organizations attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Hygiene division conducted a half day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 9<sup>th</sup> August, 2021. Twenty participants from one organization attended the programme.
- Industrial Medicine division conducted a half day online training programme on “Occupational Health in Automobile Industries” on 10<sup>th</sup> August, 2021. Six participants from six organizations attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety division conducted a half day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 11<sup>th</sup> August, 2021. Seventeen participants from one organization attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety division conducted a half day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 11<sup>th</sup> August, 2021. Sixty seven participants from one organization attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety division conducted a half day

online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 12<sup>th</sup> August, 2021. Thirty five participants from one organization attended the programme.

- Industrial Safety division conducted a half day online training programme on “Plant Inspection Techniques for Enhancing Safety” on 12<sup>th</sup> August, 2021. Five participants from five organizations attended the programme.
- The Industrial Hygiene division conducted a half day online training programme on “Selection, Use and Care of Respiratory PPEs in industries” on 13<sup>th</sup> August, 2021. Four participants from four organizations attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Medicine division conducted a half day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 17<sup>th</sup> August, 2021. Twenty five participants from one organization attended the programme.
- Industrial Safety division conducted a half day online training programme on “Occupational Health Management in Industries” on 18<sup>th</sup> August, 2021. Seven participants from six organizations attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Medicine Division conducted a half day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 19<sup>th</sup> August, 2021. Thirty two participants from one organization attended the programme.
- Industrial Safety division conducted a half day online training programme on “Industrial Housekeeping” on 19<sup>th</sup> August, 2021. Twelve participants from five organizations attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety Division conducted a half day

- online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 23<sup>rd</sup> August, 2021. Ten participants from one organization attended the programme.
- Industrial Safety division conducted a half day online training programme on “Risk Assessment in Storage and Transportation of Hazardous Chemicals” on 23<sup>rd</sup> August, 2021. Six participants from four organizations attended the programme.
  - Industrial Hygiene division conducted a half day online training programme on “Chemical Exposure at Workplace in Industries” on 23<sup>rd</sup> August, 2021. Two participants from two organizations attended the programme.
  - To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety Division conducted a half day online Awareness Campaign for Industrial Workers on “Occupational Safety, Health and Productivity in Industries” on 24<sup>th</sup> August, 2021. Thirteen participants from one organization attended the programme.
  - Industrial Safety division conducted a half day online training programme on “Safety with Wire Ropes” on 24<sup>th</sup> August, 2021. Thirteen participants from four organizations attended the programme.
  - To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety Division conducted a half day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 25<sup>th</sup> August, 2021. Sixty participants from one organization attended the programme.
  - To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Hygiene division conducted a half day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 25<sup>th</sup> August, 2021. Twenty four participants from one organization attended the programme.
  - To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety division conducted a half day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 27<sup>th</sup> August, 2021. Sixty five participants from one organization attended the programme.
  - To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety division conducted a half day online Awareness Campaign for Industrial Workers on “Occupational Safety, Health and Productivity in Industries” on 27<sup>th</sup> August, 2021. Thirty six participants from one organization attended the programme.
  - To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety division conducted a half day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 27<sup>th</sup> August, 2021. Thirty seven participants from one organization attended the programme.
  - To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety division conducted a half day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 1<sup>st</sup> September, 2021. Thirty seven participants from one organization attended the programme.
  - Industrial Safety division conducted a half day online training programme on “Safety Audit” on 2<sup>nd</sup> September, 2021. Twelve participants from ten organizations attended the programme.
  - To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety division conducted a half day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 2<sup>nd</sup> September, 2021. Thirty seven participants from one organization attended the programme.

- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety division conducted a half day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 7<sup>th</sup> September, 2021. Twenty participants from one organization attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety division conducted a half day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 9<sup>th</sup> September, 2021. Eighty six participants from one organization attended the programme.
- Industrial Safety division conducted a half day online training programme on “Hazard Identification, Risk Assessment and Control Techniques” on 17<sup>th</sup> September, 2021. Sixteen participants from six organizations attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Hygiene division conducted a half day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 20<sup>th</sup> September, 2021. Eleven participants from one organization attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety division conducted a half day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 20<sup>th</sup> September, 2021. Twenty four participants from one organization attended the programme.
- Industrial Safety division conducted a half day online training programme on “Ergonomics and Manual Material Handling” on 21<sup>st</sup> September, 2021. Seven participants from six organizations attended the programme.
- Industrial Safety division conducted a half day online training programme on “Occupational Safety, Hygiene and Health in Industries” on 23<sup>rd</sup> September, 2021. Two participants from two organizations attended the programme.
- Industrial Hygiene division conducted a half day online training programme on “Hazard Evaluation Work Environment Monitoring in Industrial Workplaces” on 27<sup>th</sup> September, 2021. Two participants from two organizations attended the programme.
- Industrial Safety division conducted a half day online training programme on “Safety Performance Measurement in Industries” on 27<sup>th</sup> September, 2021. Ten participants from ten organizations attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety division conducted a half day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 27<sup>th</sup> September, 2021. Sixty participants from one organization attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety division conducted a half day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 28<sup>th</sup> September, 2021. Sixty participants from one organization attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Hygiene division conducted a half day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 28<sup>th</sup> September, 2021. Forty participants from one organization attended the programme.
- Industrial Safety Division conducted a half day online training programme on “Investigation & Prevention & Accidents in Factories & Docks” on 29<sup>th</sup> September, 2021. Three participants from three organizations attended the programme.
- To Commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the

Industrial Safety division conducted a half day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 29<sup>th</sup> September, 2021. Sixty participants from one organization attended the programme.

- Industrial Safety division conducted a half day online training programme on “Enhancing Safety through Employee Participation” on 30<sup>th</sup> September, 2021. Three participants from three organizations attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety division conducted a half day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 30<sup>th</sup> September, 2021. Sixty participants from one organization attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Medicine division conducted a half day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 30<sup>th</sup> September, 2021. Forty participants from one organization attended the programme.
- Industrial Medicine division conducted a half day online training programme on “Occupational Health” on 4<sup>th</sup> October, 2021. Thirteen participants from ten organizations attended the programme.
- Industrial Safety division conducted a half day online training programme on “Safety in Confined Spaces” on 5<sup>th</sup> October, 2021. Seven participants from five organizations attended the programme.
- Industrial Medicine division conducted a half day online training programme on “Medical Emergency Management at Workplaces” on 7<sup>th</sup> October, 2021. Eight participants from eight organizations attended the programme.
- Industrial Safety division conducted a half day online training programme on “Accident Prevention and Investigation Techniques at

workplaces” on 11<sup>th</sup> October, 2021. Eight participants from eight organizations attended the programme.

- Industrial Safety division conducted a half day online training programme on “Slings and Hoisting Safety” on 11<sup>th</sup> October, 2021. Eleven participants from ten organizations attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety division conducted a half day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 12<sup>th</sup> October, 2021. Sixty three participants from one organization attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety division conducted a half day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 12<sup>th</sup> October, 2021. Twenty four participants from one organization attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety division conducted a half day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 16<sup>th</sup> October, 2021. Twenty five participants from one organization attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety division conducted a half day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 21<sup>st</sup> October, 2021. One hundred and thirty two participants from one organization attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Medicine division conducted a half day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and



Productivity in Industries on 22<sup>nd</sup> October, 2021. Forty two participants from one organization attended the programme.

- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Hygiene division conducted a half day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 29<sup>th</sup> October, 2021. One hundred and fifty seven participants from one organization attended the programme.
- The Industrial Safety division conducted a half day online training programme on “Facets of Safety Training on OSH Management” on 1<sup>st</sup> November, 2021. Five participants from five organizations attended the programme.
- Industrial Safety division conducted a half day online training programme on “On-site Emergency Management in Industries” on 1<sup>st</sup> November, 2021. Two participants from two organizations attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety division conducted a half day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 9<sup>th</sup> November, 2021. Eighty eight participants from one organization attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety division conducted a half day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 12<sup>th</sup> November, 2021. One hundred and eleven participants from one organization attended the programme.
- Industrial Safety division conducted a half day online training programme on “Loss Prevention Approaches in Industries” on 15<sup>th</sup> November, 2021. Eight participants from eight organizations attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety division conducted a half day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 16<sup>th</sup> November, 2021. One hundred and thirty eight participants from one organization attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety division conducted a half day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 17<sup>th</sup> November, 2021. One hundred and fifty participants from one organization attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety division conducted a half day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 17<sup>th</sup> November, 2021. Fifty two participants from one organization attended the programme.
- Industrial Safety division conducted a half day online training programme on “Qualitative and Quantitative Risk Analysis in Industries” on 18<sup>th</sup> November, 2021. Seventeen participants from ten organizations attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety division conducted a half day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 23<sup>rd</sup> November, 2021. Thirty nine participants from one organization attended the programme.
- Industrial Medicine division conducted a half day online training programme on “Health Issues in Power Tool Operations” on 24<sup>th</sup> November, 2021. Four participants from four organizations attended the programme.
- Industrial Safety division conducted a half day online training programme on “Lock out / Tag out (LOTO) and Toolbox talks” on 24<sup>th</sup> November, 2021. Twenty four participants from thirteen organizations attended the programme.

- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety division conducted a half day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 26<sup>th</sup> November, 2021. Twenty eight participants from one organization attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety division conducted a half day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 26<sup>th</sup> November, 2021. Sixty participants from one organization attended the programme.
- Industrial Safety division conducted a half day online training programme on “Theories of Accident Causation and Prevention” on 30<sup>th</sup> November, 2021. Four participants from four organizations attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety division conducted a half day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 2<sup>nd</sup> December, 2021. Forty four participants from one organization attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety division conducted a half day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 7<sup>th</sup> December, 2021. Eighty two participants from one organization attended the programme.
- Industrial Safety division conducted a half day online training programme on “Safety in Construction site” on 8<sup>th</sup> December, 2021. Three participants from three organizations attended the programme.
- Industrial Safety division conducted a half day online training programme on “Computation of Safety Performance Rates in Industries and Port” on 9<sup>th</sup> December, 2021. Five participants from five organizations attended the programme.
- Industrial Safety division conducted a half day online training programme on “Process Safety Management” on 9<sup>th</sup> December, 2021. Twenty six participants from sixteen organizations attended the programme.
- Industrial Safety division conducted a half day online training programme on “Safety Terminology” on 10<sup>th</sup> December, 2021. Five participants from five organizations attended the programme.
- Industrial Hygiene division conducted a half day online training programme on “Occupational Exposure to Physical hazard, Noise and its Assessment in Industries” on 10<sup>th</sup> December, 2021. Eleven participants from two organizations attended the programme.
- Industrial Hygiene division conducted a half day online training programme on “Identification of Occupational Hazards at Workplaces” on 13<sup>th</sup> December, 2021. Eighteen participants from thirteen organizations attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety division conducted a half day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 14<sup>th</sup> December, 2021. Forty eight participants from one organization attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety division conducted a half day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 15<sup>th</sup> December, 2021. Forty seven participants from one organization attended the programme.
- Industrial Medicine division conducted a half day online training programme on “Safety and Health Aspects in Hot Work” on 16<sup>th</sup> December, 2021. Two participants from two organizations attended the programme.

- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety division conducted a half day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 16<sup>th</sup> December, 2021. Forty eight participants from one organization attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety division conducted a half day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 16<sup>th</sup> December, 2021. Eighty one participants from one organization attended the programme.
- Industrial Safety division conducted a half day online training programme on “Safety Management System” on 17<sup>th</sup> December, 2021. Three participants from three organizations attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety division conducted a half day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 17<sup>th</sup> December, 2021. Forty eight participants from one organization attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety division conducted a half day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 17<sup>th</sup> December, 2021. Forty nine participants from one organization attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety division conducted a half day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 17<sup>th</sup> December, 2021. Seventy seven participants from one organization attended the programme.
- Industrial Safety division conducted a half day online training programme on “Industrial Safety in Factories and Dock workers” on 20<sup>th</sup> December, 2021. One participant from one organization attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety division conducted a half day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 20<sup>th</sup> December, 2021. Thirty four participants from one organization attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety division conducted a half day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 20<sup>th</sup> December, 2021. Seventy one participants from one organization attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety division conducted a half day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 21<sup>st</sup> December, 2021. Sixty nine participants from one organization attended the programme.
- Industrial Hygiene division conducted a half day online training programme on “Chemical Hazard and understanding Permissible Limit of Exposure (PLE) of certain chemicals in the industrial workplaces” on 22<sup>nd</sup> December, 2021. Eleven participants from seven organizations attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety division conducted a half day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 22<sup>nd</sup> December, 2021. Fifty six participants from one organization attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the

Industrial Safety division conducted a half day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 22<sup>nd</sup> December, 2021. Fifty participants from one organization attended the programme.

- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety division conducted a half day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 22<sup>nd</sup> December, 2021. Fifteen participants from one organization attended the programme.
- Industrial Hygiene division conducted a half day online training programme on “Occupational Hazards in Industry and their control by Non-Respiratory Personal Protective Equipments (PPEs)” on 23<sup>rd</sup> December, 2021. Eight participants from eight organizations attended the programme.
- Industrial Safety division conducted a half day online training programme on “Motivation and Industrial Safety” on 24<sup>th</sup> December, 2021. Four participants from four organizations attended the programme.
- Industrial Hygiene division conducted a half day online training programme on “Construction Safety” on 28<sup>th</sup> December, 2021. One participant from one organization attended the programme.
- Industrial Medicine Division conducted a half day online training programme on “Prevention and Control of Notifiable Occupational Diseases in Factories” on 29<sup>th</sup> December, 2021. Seven participants from four organizations attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety division conducted a half day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 29<sup>th</sup> December, 2021. Twenty five participants from one organization attended the programme.

- Industrial Safety division conducted a half day online training programme on “Workplace Safety and Health” on 30<sup>th</sup> December, 2021. One participant from one organization attended the programme.

### Regional Labour Institute, Kanpur



- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence day (Azadi ka Amrit Mahotsav) the Industrial Medical division conducted a half day online Awareness Campaign on Occupational Safety, Health and Productivity in Industries on 1<sup>st</sup> July, 2021. One hundred sixty five participants from four organizations attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi ka Amrit Mahotsav) the Industrial Safety division conducted a half day online Awareness Campaign on Occupational Safety, Health and Productivity in Industries on 9<sup>th</sup> July, 2021. One hundred twenty five participants from four organizations attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi ka Amrit Mahotsav) the Industrial Hygiene division conducted a half day online Awareness Campaign on Occupational Safety, Health and Productivity in Industries on 16<sup>th</sup> July, 2021. One hundred twenty five participants from three organizations attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi ka Amrit Mahotsav) the Industrial Safety division conducted a half day online Awareness Campaign on Occupational Safety, Health and Productivity in Industries on 19<sup>th</sup> July, 2021. One hundred twenty five participants from three organizations attended the programme.

- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi ka Amrit Mahotsav) the Industrial Safety division conducted a half day online Awareness Campaign on Occupational Safety, Health and Productivity in Industries on 30<sup>th</sup> July, 2021. One hundred twenty five participants from two organizations attended the programme.
- The Institute conducted a half day online training programme on “Machine Safety” on 15<sup>th</sup> July 2021. Four participants from four organizations attended the programme.
- The Institute conducted a half day online training programme on “Enhancing Safety through Safety Committee Meetings” on 20<sup>th</sup> July, 2021. Thirteen participants from thirteen organizations attended the programme.
- The Institute conducted a half day online training programme on “Safety with Lifting Appliance” on 26<sup>th</sup> August, 2021. Thirteen participants from six organizations attended the programme.
- The Institute conducted a half day online training programme on “Improving Occupational Health and Safety at Work” on 11<sup>th</sup> August, 2021. The programme was attended by seven participants from seven organizations.
- The Institute conducted a half day online training programme on “Management of Chemical Hazard in Industries” on 5<sup>th</sup> August, 2021. Ten participants from four organizations attended the programme.
- The Institute conducted a half day online training programme on “Health effects of Temperature and Ventilation at workplace” on 22<sup>nd</sup> July, 2021 by Medical Division. Six participants from six organizations attended the programme.
- The Institute conducted a half day online training programme on “Prevention of Occupational Lung Diseases and Respiratory Protective Equipment” 23<sup>rd</sup> July, 2021. Nineteen participants from twelve organizations attended the programme.
- The Institute conducted a half day online training programme on “Health effects of Noise and Vibration at workplace” on 23<sup>rd</sup> July, 2021. Sixteen participants from twelve organizations attended the programme.
- The Institute conducted a half day online training programme on “Safety in Material Handling” on 23<sup>rd</sup> July, 2021. Six participants from six organizations attended the programme.
- The Institute conducted a half day online training programme on “Fundamentals of Occupational Health for Safety & Health Professional” on 28<sup>th</sup> July, 2021. Eighteen participants from thirteen organizations attended the programme.
- The Institute conducted a half day online training programme on “Basic of Occupational Health Services” on 29<sup>th</sup> July, 2021. Fifteen participants from thirteen organizations attended the programme.
- The Institute conducted a half day online training programme on “Surveillance and Monitoring for Notifiable diseases” on 30<sup>th</sup> July, 2021. Thirteen participants from twelve organizations attended the programme.
- The Institute conducted a half day online training programme on “First-Aid Tools & Techniques” on 10<sup>th</sup> August, 2021. Thirteen participants from eight organizations attended the programme.
- The Institute conducted a half day online training programme on “Ergonomics in Industries” on 27<sup>th</sup> August, 2021. Sixteen participants from thirteen organizations attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi ka Amrit Mahotsav) the Industrial Safety division conducted a half day online Awareness Campaign on Occupational Safety, Health and Productivity in Industries on 3<sup>rd</sup> August, 2021. One hundred fifty two participants attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi ka Amrit Mahotsav) the Industrial Safety division conducted a half day online Awareness Campaign on Occupational Safety, Health and Productivity in Industries on 11<sup>th</sup> August, 2021. Two hundred forty seven participants attended the programme.

- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi ka Amrit Mahotsav) the Industrial Safety division conducted a half day online Awareness Campaign on Occupational Safety, Health and Productivity in Industries on 13<sup>th</sup> August, 2021. One hundred nine participants attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi ka Amrit Mahotsav) the Industrial Safety division conducted a half day online Awareness Campaign on Occupational Safety, Health and Productivity in Industries on 24<sup>th</sup> August, 2021. One hundred twenty six participants from four organizations attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi ka Amrit Mahotsav) the Industrial Safety division conducted a half day online Awareness Campaign on Occupational Safety, Health and Productivity in Industries on 31<sup>st</sup> August, 2021. One hundred twenty five participants attended the programme.
- The Institute conducted a half day online training programme on "Prevention of Occupational Cancer" on 6<sup>th</sup> October 2021. One hundred eight participants from four organizations attended the programme.
- The Institute conducted a half day online training programme on "Medical Management of Occupational Poisonings" on 8<sup>th</sup> October, 2021. One hundred Fifteen participants from five organizations attended the programme.
- The Institute conducted a half day online training programme on "Role of Housekeeping towards ensuring Safety" on 22<sup>nd</sup> October, 2021. One hundred four participants from four organizations attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi ka Amrit Mahotsav) the Industrial Safety division conducted a half day online Awareness Campaign on Occupational Safety, Health and Productivity in Industries on 21<sup>st</sup> October, 2021. One hundred fifty five participants attended from one organization the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi ka Amrit Mahotsav) the Industrial Safety division conducted a half day online Awareness Campaign on Occupational Safety, Health and Productivity in Industries on 21<sup>st</sup> October, 2021. One hundred thirty participants from one organization attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi ka Amrit Mahotsav) the Industrial Safety division conducted a half day online Awareness Campaign on Occupational Safety, Health and Productivity in Industries on 28<sup>th</sup> October, 2021. One hundred twenty eight participants from one organization attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi ka Amrit Mahotsav) the Industrial Safety division conducted a half day online Awareness Campaign on Occupational Safety, Health and Productivity in Industries on 18<sup>th</sup> November, 2021. One hundred twenty eight participants from one organization attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi ka Amrit Mahotsav) the Industrial Safety division conducted a half day online Awareness Campaign on Occupational Safety, Health and Productivity in Industries on 19<sup>th</sup> November, 2021. One hundred thirty participants from one organization attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi ka Amrit Mahotsav) the Industrial Medical division conducted a half day online Awareness Campaign on Occupational Safety, Health and Productivity in Industries on 20<sup>th</sup> November, 2021. One hundred fifty five participants from one organization attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi ka Amrit Mahotsav) the Industrial Medical division conducted a half day online Awareness Campaign on Occupational Safety, Health and Productivity in Industries on 28<sup>th</sup> November, 2021. One hundred fifty five participants from one organization attended the programme.

- The Institute conducted a half day online training programme on “Recent Updates in Occupational Health Practice for Factory Medical Officers” on 24<sup>th</sup> November, 2021. Eleven participants from ten organizations attended the programme.
- The Institute conducted a half day online training programme on “Prevention of Occupational Diseases and Injuries in Industries and Ports” on 26<sup>th</sup> November, 2021. Seven participants from seven organizations attended the programme.
- The Institute conducted a half day online training programme on “Permit to work system in Industries” on 15<sup>th</sup> December, 2021. The programme was attended by three participants from one organization.
- The Institute conducted a half day online training programme on “Safety Engineering” on 17<sup>th</sup> December, 2021. Two participants from one organization attended the programme.
- The Institute conducted a half day online training programme on “Medical Surveillance for prevention of occupational Diseases” on 17<sup>th</sup> December, 2021. Seven participants from five organizations attended the programme.
- The Institute conducted a half day online training programme on “Heavy Metal Poisoning” on 21<sup>st</sup> December, 2021. Four participants from four organizations attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi ka Amrit Mahotsav) the Industrial Safety division conducted a half day online Awareness Campaign on Occupational Safety, Health and Productivity in Industries on 9<sup>th</sup> December, 2021. Seventy six participants from one organization attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi ka Amrit Mahotsav) the Industrial Safety division conducted a half day online Awareness Campaign on Occupational Safety, Health and Productivity in Industries on 10<sup>th</sup> December, 2021. Sixty six participants from one organization attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi ka Amrit Mahotsav) the Industrial Medical division conducted a half day online Awareness Campaign on Occupational Safety, Health and Productivity in Industries on 21<sup>st</sup> December, 2021. Eighty participants from one organization attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi ka Amrit Mahotsav) the Industrial Safety division conducted a half day online Awareness Campaign on Occupational Safety, Health and Productivity in Industries on 22<sup>nd</sup> December, 2021. Sixty six participants from one organization attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi ka Amrit Mahotsav) the Industrial Medical division conducted a half day online Awareness Campaign on Occupational Safety, Health and Productivity in Industries on 23<sup>rd</sup> December, 2021. One hundred fifty five participants from one organization attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi ka Amrit Mahotsav) the Industrial Safety division conducted a half day online Awareness Campaign on Occupational Safety, Health and Productivity in Industries on 24<sup>th</sup> December, 2021. Sixty four participants from one organization attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi ka Amrit Mahotsav) the Industrial Safety division conducted a half day online Awareness Campaign on Occupational Safety, Health and Productivity in Industries on 29<sup>th</sup> December, 2021. One hundred sixty eight participants from one organization attended the programme.

## Regional Labour Institute, Faridabad



- The Institute conducted a half day online training programme on “HAZOP” on 7<sup>th</sup> July, 2021. Twenty one participants from twenty organizations attended the programme
- The Institute conducted a half day online training programme on “Accident Reporting, Investigation & Analysis” on 7<sup>th</sup> July, 2021. Eight participants from seven organizations attended the programme.
- The Institute conducted a half day online training programme on “Safety Management in Industries” on 8<sup>th</sup> July, 2021. Four participants from four organizations attended the programme.
- The Institute conducted a half day online training programme on “Fire Safety” on 9<sup>th</sup> July, 2021. Two participants from two organizations attended the programme.
- The Institute conducted a half day online training programme on “Safety Associated with Hand & Power Tools” on 13<sup>th</sup> July, 2021. Thirteen participants from twelve organizations attended the programme.
- The Institute conducted a half day online training programme on “Safe use of Lifting Machines & Tackles” on 14<sup>th</sup> July, 2021. Five participants from five organizations attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety division conducted a half-day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 15<sup>th</sup> July, 2021. One hundred forty three participants from two organizations attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety division conducted a half-day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 29<sup>th</sup> July, 2021. Six hundred thirty eight participants from one organization attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety division conducted a half-day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 5<sup>th</sup> August, 2021. Forty participants from one organization attended the programme.
- The Institute conducted a half day online training programme on “Occupational Health and Safety Audit” on 16<sup>th</sup> August, 2021. The training programme was attended by eleven participants from nine organizations.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety division conducted a half-day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 27<sup>th</sup> August, 2021. Two hundred fifty participants from three organizations attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety division conducted two half-days online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 2<sup>nd</sup> September, 2021. Eighty four participants from two organizations attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety division conducted two half-days online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 6<sup>th</sup> September, 2021. Two hundred participants from two organizations attended the programme.



- The Institute conducted a half day online training programme on “Chemical Hazard and Safety Management” on 6<sup>th</sup> September, 2021. Three participants from three organizations attended the programme.
- The Institute conducted a half day online training programme on “Hazard Communication System (HAZCAM)” on 9<sup>th</sup> September, 2021. Four participants from four organizations attended the programme.
- The Institute conducted a half day online training programme on “Safety with scaffolding” on 15<sup>th</sup> September, 2021. Two participants from two organizations attended the programme.
- The Institute conducted a half day online training programme on “Safety in Construction Industry” on 20<sup>th</sup> September, 2021. Eleven participants from ten organizations attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety division conducted a half-day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 22<sup>nd</sup> September, 2021. One hundred twenty nine participants from two organizations attended the programme.
- The Institute conducted a half day online training programme on “Working at Height” on 24<sup>th</sup> September, 2021. Five participants from four organizations attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety division conducted two half-days Online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 27<sup>th</sup> September, 2021. One hundred sixty three participants from two organizations attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety division conducted two half-days Online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 28<sup>th</sup> September, 2021. Fifty two participants from two organizations attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety division conducted a half-day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 29<sup>th</sup> September, 2021. One hundred thirty nine participants from five organizations attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety division conducted a half-day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 30<sup>th</sup> September, 2021. Seventy three participants from one organization attended the programme.
- The Institute conducted a half day online training programme on “Safe Guarding and Machines” on 7<sup>th</sup> October, 2021. Seventeen participants from six organizations attended the programme.
- The Institute conducted a half day online training programme on “Safety during Maintenance” on 8<sup>th</sup> October, 2021. Fifteen participants from four organizations attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety division conducted a half-day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 8<sup>th</sup> October, 2021. One hundred three participants from one organization attended the programme.
- The Institute conducted a half day online training programme on “Role of Executive in Promoting Safety & Health in Industries” on 12<sup>th</sup> October, 2021. Eleven participants from four organizations attended the programme.
- The Institute conducted a half day online training programme on “Role of Housekeeping on Safety” on 13<sup>th</sup> October, 2021. Two participants from two organizations attended the programme.

- The Institute conducted a half day online training programme on “Evaluation & Control of Industrial Noise” on 18<sup>th</sup> October, 2021. Two participants from two organizations attended the programme.
- The Institute conducted a half day online training programme on “Role & Responsibility of Safety Officer” on 21<sup>st</sup> October, 2021. Eleven participants from nine organizations attended the programme.
- To Commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety division conducted a half-day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 23<sup>rd</sup> October, 2021. Thirty participants from one organization attended the programme.
- The Institute conducted a half day online training programme on “Industrial Ventilation” on 25<sup>th</sup> October, 2021. Two participants from two organizations attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety division conducted two half-days online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 27<sup>th</sup> October, 2021. One hundred twenty seven participants from one organization attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety division conducted three half-days online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 28<sup>th</sup> October, 2021. Four hundred thirty four participants from twelve organizations attended the programme.
- The Institute conducted a half day online training programme on “Systematic Technique for system Examination & Risk Management” on 02<sup>nd</sup> November, 2021. Two participants from two organizations attended the programme.
- The Institute conducted a half day online training programme on “Safe Handling of Material in Chemical & Manufacturing Industries” on 8<sup>th</sup> November, 2021. Two participants from two organizations attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety division conducted two half-days online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 11<sup>th</sup> November, 2021. Two hundred twenty participants from five organizations attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety division conducted a half-day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 12<sup>th</sup> November, 2021. Sixty nine participants from one organization attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety division conducted a half-day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 13<sup>th</sup> November, 2021. Thirty five participants from one organization attended the programme.
- The Institute conducted a half day online training programme on “Promoting OSH through Worker’s Participating” on 17<sup>th</sup> November, 2021. One participant from one organization attended the programme.
- The Institute conducted a half day online training programme on “Welding Safety” on 18<sup>th</sup> November, 2021. One participant from one organization attended the programme.
- The Institute conducted a half day online training programme on “Safety Planning in Industries” on 23<sup>rd</sup> November, 2021. Five participants from five organizations attended the programme.
- The Institute conducted a half day online training programme on “Safety in Engineering Industries” on 23<sup>rd</sup> November, 2021. Two participants from two organizations attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety division conducted a half-day online Awareness Campaign for Industrial Workers

- on Occupational Safety, Health and Productivity in Industries on 25<sup>th</sup> November, 2021. One hundred three participants from one organization attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety division conducted a half-day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 26<sup>th</sup> November, 2021. Thirty five participants from one organization attended the programme.
  - The Institute conducted a half day online training programme on “Safety in Hand & Portable Power Tools” on 30<sup>th</sup> November, 2021. One participant from one organization attended the programme.
  - The Institute conducted a half day online training programme on “Safety Management for Chemical hazards” on 1<sup>st</sup> December, 2021. Twenty three participants from one organization attended the programme.
  - To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety Division conducted a half-day online Awareness Campaign for Industrial Workers on “Occupational Safety, Health and Productivity in Industries” on 5<sup>th</sup> December, 2021. Fifty eight participants from one organization attended the programme.
  - To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety Division conducted a half-day online Awareness Campaign for Industrial Workers on “Occupational Safety, Health and Productivity in Industries” on 9<sup>th</sup> December, 2021. One hundred sixty participants from four organizations attended the programme.
  - To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety division conducted a half-day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 13<sup>th</sup> December, 2021. One hundred five participants from one organization attended the programme.
  - To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety division conducted a half-day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 14<sup>th</sup> December, 2021. Twenty seven participants from one organization attended the programme.
  - The Institute conducted a half day online training programme on “Safety with Storage of Material” on 15<sup>th</sup> December, 2021. Twenty eight participants from sixteen organizations attended the programme.
  - To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety division conducted a half-day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 18<sup>th</sup> December, 2021. Two hundred three participants from one organization attended the programme.
  - The Institute conducted a half day online training programme on “Safe Work Practices in Industries” on 20<sup>th</sup> December, 2021. One participant from one organization attended the programme.
  - The Institute conducted a half day online training programme on “Role and functions of Safety Committees” on 20<sup>th</sup> December, 2021. Twenty five participants from six organizations attended the programme.
  - The Institute conducted a half day online training programme on “Risk Assessment in Factories” on 22<sup>nd</sup> December, 2021. The training programme was attended by five participants from four organizations.
  - To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety division conducted a half-day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 25<sup>th</sup> December, 2021. Eighty three participants from three organizations attended the programme.
  - The Institute conducted a half day online training programme on “Safety with EOT Cranes & Lifts

Tackles” on 28<sup>th</sup> December, 2021. Nine participants from eight organizations attended the programme.

- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety division conducted a half-day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 30<sup>th</sup> December, 2021. One hundred twelve participants from four organizations attended the programme.

### Regional Labour Institute, Kolkata



- The Institute conducted a half day online Training Programme on “Medical Response to Major Accident Hazard in Factories on 1<sup>st</sup> July, 2021. Seven participants from five organizations attended the programme.
- The Institute conducted a half day online Training Programme on “Noise Induced Hearing Loss” on 2<sup>nd</sup> July, 2021. Four participants from four organizations attended the programme.
- The Institute conducted a half day online Training Programme on “Effective Safety Audit” on 12<sup>th</sup> July, 2021. Six participants from six organizations attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety Division conducted a half day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 19<sup>th</sup> July, 2021. One hundred eight participants from twenty organizations attended the programme.

- The Institute conducted a half day online Training Programme on “Occupational Safety, Health and Work Environment Management System” on 22<sup>nd</sup> July, 2021. Nineteen participants from nine organizations attended the programme.

- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety Division conducted a half day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 26<sup>th</sup> July, 2021. Fifty participants from thirty one organizations attended the programme.

- The Institute conducted a half day online Training Programme on “Accident Reporting and Investigation” on 26<sup>th</sup> July, 2021. Seventeen participants from thirteen organizations attended the programme.

- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Hygiene Division conducted a half day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 29<sup>th</sup> July, 2021. One hundred fifty four participants from seven organizations attended the programme.

- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety Division conducted a half day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 10<sup>th</sup> August, 2021. Seventy five participants from one organization attended the programme.

- The Institute conducted a half day online training programme on “OSH for Safety Committee Members” on 13<sup>th</sup> August, 2021. Twelve participants from seven organizations attended the programme.

- The Institute conducted a half day online training programme on “Evaluation and Control of Illumination at Workplace” on 16<sup>th</sup> August, 2021. Six participants from three organizations attended the programme.

- The Institute conducted a half day online Training Programme on “Evaluation Monitoring of Noise and Vibration at Workplace” on 17<sup>th</sup> August, 2021. Six participants from four organizations attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety Division conducted a half day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 19<sup>th</sup> August, 2021. Eleven participants from one organization attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Hygiene Division conducted a half day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 23<sup>rd</sup> August, 2021. One hundred twenty three participants from four organizations attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety Division conducted a half day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 26<sup>th</sup> August, 2021. Ninety nine participants from one organization attended the programme.
- The Institute conducted a half day online Training Programme on “Fundamentals of Industrial Hygiene” on 27<sup>th</sup> August, 2021. Five participants from five organizations attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety Division conducted a half day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 28<sup>th</sup> August, 2021. Ninety nine participants from one organization attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Medical Division conducted a half day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 31<sup>st</sup> August, 2021. One hundred participants from one organization attended the programme.
- The Institute conducted a half day Online Training Programme on “Techniques of Hazard Identification and Control in Engineering Industry” on 31<sup>st</sup> August, 2021. Nine participants from nine organizations attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety Division conducted a half day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 10<sup>th</sup> September, 2021. One hundred fifty seven participants from one organization attended the programme.
- The Institute conducted a half day online Training Programme on “Safety Committee Members” on 13<sup>th</sup> September, 2021. Two participants from two organizations attended the programme.
- The Institute conducted a half day online Training Programme on “Strategy in Prevention Workplaces” on 14<sup>th</sup> September, 2021. Five participants from five organizations attended the programme.
- The Institute conducted a half day online Training Programme on “Best Practices for the Safe Use of Machinery” on 14<sup>th</sup> September, 2021. One participant from one organization attended the programme.
- The Institute conducted a half day online Training Programme on “Safety Health & Environment Education & Training” on 15<sup>th</sup> September, 2021. Two participants from two organizations attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety Division conducted a half-day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 16<sup>th</sup> September, 2021. One hundred fifty seven participants from one organization attended the programme.

- The Institute conducted a half day online Training Programme on “Safety in Storage, Handling & Processing of Hazardous Chemicals” on 22<sup>nd</sup> September, 2021. Four participants from four organizations attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Hygiene Division conducted a half day online Awareness Campaign for Industrial Workers on Chemical and physical hazards at work place on 27<sup>th</sup> September, 2021. One hundred forty participants from five organizations attended the programme
- The Institute conducted a half day online Training Programme on “Industrial Hygiene in chemical industries” on 28<sup>th</sup> September, 2021. Five participants from five organizations attended the programme.
- The Institute conducted In-plant training programme on “Awareness on Industrial Safety” on 28<sup>th</sup> September, 2021 at Aditya Birla Insulators (Grasim Industries Ltd.) Rishra, West Bengal.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Medicine Division conducted a half day online Awareness Campaign for Industrial Workers on Chemical and physical hazards at work place on 30<sup>th</sup> September, 2021. One hundred eighty seven participants from seven organizations attended the programme.
- The Institute conducted a half day online training programme on “Valuation of Physical and Chemical Hazards at Workplaces” on 1<sup>st</sup> October, 2021. Four participants from four organizations attended the programme.
- The Institute conducted a half day online training programme on “Workplace Safety” on 4<sup>th</sup> October, 2021. Four participants from one organization attended the programme.
- The Institute conducted a half day online training programme on “Prevention of Hazards in Industries” on 5<sup>th</sup> October, 2021. Four participants from four organizations attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Hygiene Division conducted a half day online Awareness Campaign for Industrial Workers on Occupational Safety, Health & Productivity in Industries on 8<sup>th</sup> October, 2021. One hundred fifty one participants from seven organizations attended the programme.
- To Commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety Division conducted a half day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 8<sup>th</sup> October, 2021. Twenty seven participants from two organizations attended the programme.
- The Institute conducted a half day online training programme on “Prevention of Hazards in Industries” on 13<sup>th</sup> October, 2021. Five participants from two organizations attended the programme.
- The Institute conducted a half day online training programme on “Safety in Manual and Material Handling” on 20<sup>th</sup> October, 2021. Two participants from two organizations attended the programme.
- The Institute conducted a half day online training programme on “Best Practices on Hot Work” on 20<sup>th</sup> October, 2021. Three participants from two organizations attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety Division conducted a half day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 20<sup>th</sup> October, 2021. One hundred nineteen participants from three organizations attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Hygiene Division conducted a half day online Awareness Campaign for Industrial Workers on “Occupational Safety, Health and Productivity in Industries” on 21<sup>st</sup> October, 2021. One hundred seventy nine participants from eleven organizations attended the programme.

- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety Division conducted a half day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 22<sup>nd</sup> October, 2021. One hundred twenty eight participants from four organizations attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav), the Industrial Medicine Division conducted a half day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 25<sup>th</sup> October, 2021. One hundred fifty seven participants from seven organizations attended the programme.
- The Institute conducted a half day online training programme on “Safe Operation of Hand and Portable Tools” on 26<sup>th</sup> October, 2021. Eleven participants from two organizations attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety Division conducted a half day online Awareness Campaign for Industrial Workers on Occupational Safety, Health & Productivity in Industries on 26<sup>th</sup> October, 2021. One hundred fifty seven participants from three organizations attended the programme.
- The Institute conducted a half day online training programme on “Promoting Safety and Health in Industries” on 28<sup>th</sup> October, 2021. Six participants from two organizations attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety Division conducted a half day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 28<sup>th</sup> October, 2021. One hundred sixty three participants from three organizations attended the programme.
- The Institute conducted one year “Advanced Diploma in Industrial Safety for the session 2021-22” on 28<sup>th</sup> October, 2021. Fifty one participants from forty six organizations admitted in to the course.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Medicine Division conducted a half day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 29<sup>th</sup> October, 2021. One hundred forty seven participants from five organizations attended the programme.
- The Institute conducted a half day online training programme on “Selection and use of Personal Protective Equipment for Hazardous Industries” on 11<sup>th</sup> November, 2021. Two participants from two organizations attended the programme.
- The Institute conducted a half day online Training Programme on “Slings & Hoisting Safety” on 12<sup>th</sup> November, 2021. Five participants from five organizations attended the programme.
- The Institute conducted a half day online training programme on “Effective Communication in Industrial Safety” on 12<sup>th</sup> November, 2021. One participant from one organization attended the programme.
- The Institute conducted a half day online training programme on “Role of Management in Industrial Safety” on 12<sup>th</sup> November, 2021. Three participants from three organizations attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety Division conducted a half day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 15<sup>th</sup> November, 2021. One hundred seventy participants from one organization attended the programme.
- The Institute conducted a half day online training programme on “Ergonomics Principle and its use in Industrial Safety” on 16<sup>th</sup> November, 2021. Two participants from two organizations attended the programme.
- The Institute conducted a half day online training programme on “Transport Equipment Safety” on 16<sup>th</sup> November, 2021. Six participants from six organizations attended the programme.

- The Institute conducted a half day online training programme on “Safety through Employee Participation” on 18<sup>th</sup> November, 2021. One participant from one organization attended the programme.
- The Institute conducted a half day online training programme on “Evaluation of Heat Stress at workplace” on 23<sup>rd</sup> November, 2021. Two participants from one organization attended the programme.
- To Commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety Division conducted a half day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 25<sup>th</sup> November, 2021. One hundred forty two participants from one organization attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Hygiene Division conducted a half day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 25<sup>th</sup> November, 2021. One hundred forty three participants from one organization attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety Division conducted a half day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 26<sup>th</sup> November, 2021. One hundred twenty seven participants from eleven organizations attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Medicine Division conducted a half day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 26<sup>th</sup> November, 2021. One hundred fifty seven participants from twelve organizations attended the programme.
- The Institute conducted a half day online training programme on “Safety, Health and Environment Policy” on 29<sup>th</sup> November, 2021. Two participants from two organizations attended the programme.
- The Institute conducted a half day online training programme on “Working in Confined Spaces” on 29<sup>th</sup> November, 2021. Seven participants from seven organizations attended the programme.
- The Institute conducted a half day online training programme on “Types of Hazards in Industries and its Preventive Measures and Notifiable Diseases” on 1<sup>st</sup> December, 2021. Five participants from five organizations attended the programme.
- The Institute conducted a half day online training programme on “Work Procedure and Responsibilities of OHC” on 3<sup>rd</sup> December, 2021. Four participants from four organizations attended the programme.
- The Institute conducted a half day online training programme on “Basics of Ergonomics and OHC.” for Executive and Staffs, Safety Officers/ Personnel, Factory Inspectors and Occupational Health Centre Employees” on 3<sup>rd</sup> December, 2021. Three participants from three organizations attended the programme.
- The Institute conducted a half day online training programme on “Awareness Programme on Occupational Lung Diseases and Its Preventive Measures” on 6<sup>th</sup> December, 2021. Two participants from two organizations attended the programme.
- The Institute conducted a half day online training programme on “Basics of Ergonomics and OHC” on 8<sup>th</sup> December, 2021. One participant from one organization attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Hygiene Division conducted two half-days online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 10<sup>th</sup> December, 2021. Two hundred and two participants from two organizations attended the programme.
- The Institute conducted a half day online training programme on “Noise and its impact on workers” on 14<sup>th</sup> December, 2021. Two participants from one organization attended the programme.



- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety Division conducted a half-day online Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 15<sup>th</sup> December, 2021. One hundred sixty two participants from one organization attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety Division conducted a half-day in-plant Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 17<sup>th</sup> December, 2021. Two hundred fifty three participants from one organization attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Industrial Safety Division conducted a half-day in-plant Awareness Campaign for Industrial Workers on Occupational Safety, Health and Productivity in Industries on 17<sup>th</sup> December, 2021. One hundred thirty two participants from one organization attended the programme
- The Institute conducted a half day online training programme on “Safety in Material Handling” on 20<sup>th</sup> December, 2021. One participant from one organization attended the programme.

### **Regional Labour Institute, Shillong**

- To commemorate ‘Azadi Ka Amrit Mahotsav’, the Institute conducted a half day online Awareness Campaign for Industrial Workers on ‘Occupational Safety, Health and Productivity in Industries’ on 7<sup>th</sup> July, 2021. Forty five participants attended the programme.
- To commemorate ‘Azadi Ka Amrit Mahotsav,’ the Institute conducted a half day online training programme on Occupational Safety and Health Awareness’, on 13<sup>th</sup> July, 2021. Twenty nine participants attended the programme.
- The Institute conducted a half day online training programme on ‘Occupational Safety, Health and Work Environment Management System’ on 22<sup>nd</sup>

July, 2021. Nineteen participants from ten organizations attended the programme.

- The Institute conducted a half day online training Programme on ‘Accident Reporting and Investigation’ on 26<sup>th</sup> July, 2021. Seventeen participants from twelve organisations attended the programme.
- The Institute conducted a half day online training Programme on ‘Accident Prevention through OSH Management System’ on 28<sup>th</sup> July, 2021. Fourteen participants from ten organisations attended the programme.
- To commemorate ‘Azadi Ka Amrit Mahotsav’, the Institute conducted a half day online training programmes for creation of ‘Occupational Safety and Health Awareness’ on 7<sup>th</sup> August, 2021. Thirty two participants attended the programme.
- The Institute conducted a half day online training programme on “Accident Reporting and Investigation” on 17<sup>th</sup> August, 2021. Six participants from six organizations attended the programme.
- The Institute conducted a half day online training programme on “Techniques of Hazard Identification and Control in Engineering Industry” on 31<sup>st</sup> August, 2021. Ten participants from nine organizations attended the programme.
- To commemorate ‘Azadi Ka Amrit Mahotsav’, the Institute conducted a half day online training programme for creation of ‘Occupational Safety and Health awareness’ on 1<sup>st</sup> September, 2021. Forty nine participants attended the programme.
- The Institute conducted a half day online training programme on “Techniques of Hazard Identification and Control in Industry” on 3<sup>rd</sup> September, 2021. Nine participants from six organizations attended the programme.
- To commemorate ‘Azadi Ka Amrit Mahotsav’, the Institute conducted a half day training programme on ‘Occupational Safety and Health awareness for industrial workers’ on 14<sup>th</sup> September, 2021. Fifty five participants attended the programme.

- The Institute conducted a half day, in-plant training programme for creation of 'Occupational Safety and Health Awareness' on 22<sup>nd</sup> September, 2021 at M/s Star Cement Meghalaya Ltd. Thirty five participants attended the programme, for celebration of 'Azadi ka Amrit Mahotsav'.
- The Institute conducted a half day, in-plant training programme for creation of 'Occupational Safety and Health Awareness' on 1<sup>st</sup> October, 2021 at M/s Star Cement Meghalaya Ltd. Twenty two participants attended the programme, for celebration of 'Azadi ka Amrit Mahotsav'.
- The Institute conducted an in-plant training programme at M/s. Kantalo Coke on 'Awareness Campaign for Industrial Workers' on 19<sup>th</sup> October, 2021. Forty eight participants attended the programme, for celebration of 'Azadi Ka Amrit Mahotsav'.
- The Institute conducted a half day online training programme on 'Safeguarding of machines' on 27<sup>th</sup> October, 2021. Four participants from four organizations attended the programme.
- The Institute conducted a half day online training programme on 'Electrical Safety at Workplaces for Accident Prevention" on 28<sup>th</sup> October, 2021. Seventeen participants from seventeen organizations attended the programme.
- To commemorate 'Azadi Ka Amrit Mahotsav', the institute conducted a half day online training programme on 'Occupational Safety and Health awareness' for industrial workers on 29<sup>th</sup> October, 2021. Thirty nine participants attended the programme.
- To commemorate 'Azadi Ka Amrit Mahotsav', the institute conducted a half day online training programme on 30<sup>th</sup> October, 2021 for creation of 'Occupational Safety and Health awareness' among industrial workers. Seventeen participants attended the programme.
- The Institute conducted a half day online training programme on "Occupational Safety and Health with Hand Tools and Power Tool" on 10<sup>th</sup> November, 2021. Four participants from three organisations attended the programme.
- The Institute conducted a half day online training programme on "Housekeeping and Cleanliness at Workplaces" on 10<sup>th</sup> November, 2021. Thirty nine two participants from two organisations attended the programme.
- To commemorate 'Azadi Ka Amrit Mahotsav', the Institute conducted a half day online training program for creation of 'Occupational Safety and Health Awareness' on 12<sup>th</sup> November, 2021. One hundred fifty two participants attended the programme.
- To commemorate 'Azadi Ka Amrit Mahotsav' the Institute conducted a half day online training program for creation of 'Occupational Safety and Health Awareness' on 27<sup>th</sup> December, 2021. Fifty five participants attended the programme.
- To commemorate 'Azadi Ka Amrit Mahotsav', the Institute conducted a half day online training program for creation of 'Occupational Safety and Health Awareness' on 28<sup>th</sup> December, 2021. Fifty five participants attended the programme.
- To commemorate 'Azadi Ka Amrit Mahotsav', the Institute conducted a half day online training program for creation of 'Occupational Safety and Health Awareness' on 29<sup>th</sup> December, 2021. Twenty nine participants attended the programme.

### **Inspectorate Dock Safety, Chennai**

- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Inspectorate conducted Safety Awareness Training programme for the Dock Workers working in Chennai Port Trust, through online, on 6<sup>th</sup> July, 2021. Sixty nine participants attended from the port.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Inspectorate conducted Safety Awareness Training programme for the Dock Workers working in Kamarajar Port Ltd, through online, on 22<sup>nd</sup> July, 2021. Seventy participants attended from the port.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Inspectorate conducted Safety Awareness Training programme for the Dock Workers

working in Chennai Port Trust on 28<sup>th</sup> July, 2021. Twenty nine participants attended from the port.

- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Inspectorate conducted Safety Awareness Training programme for the Dock Workers working in Chennai Port Trust on 2<sup>nd</sup> August, 2021. Forty nine participants attended from the port.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Inspectorate conducted Safety Awareness Training programme for the Dock Workers working in Chennai Port Trust on 3<sup>rd</sup> August, 2021. Forty seven participants attended from the port.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Inspectorate conducted Safety Awareness Training programme for the Dock Workers working in Chennai Port Trust, through online, on 4<sup>th</sup> August, 2021. Thirty six participants attended from the port.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Inspectorate conducted Safety Awareness Training programme for the Dock Workers working in Chennai Port Trust on 10<sup>th</sup> August, 2021. Thirty nine participants attended from the port.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Inspectorate conducted Safety Awareness Training programme for the Dock Workers working in Chennai Port Trust on 11<sup>th</sup> August, 2021. Thirty participants attended from the port.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Inspectorate conducted Safety Awareness Training programme for the Dock Workers working in Chennai Port Trust on 13<sup>th</sup> August, 2021. Ninety Five participants attended from the port.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Inspectorate conducted Safety Awareness Training programme for the Dock Workers working in Chennai Port Trust on 18<sup>th</sup> August,

2021. Twenty five participants attended from the port.

- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Inspectorate conducted Safety Awareness Training programme for the Dock Workers working in Chennai Port Trust on 1<sup>st</sup> September, 2021. Thirty one participants attended from the port.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Inspectorate conducted Safety Awareness Training programme for the Dock Workers working in Chennai Port Trust on 8<sup>th</sup> September, 2021. Thirty one participants attended from the port.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Inspectorate conducted Safety Awareness Training programme for the Dock Workers working in Kamarajar Port Ltd on 9<sup>th</sup> September, 2021. Twenty five participants attended from the port.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Inspectorate conducted Safety Awareness Training programme for the Dock Workers working in Chennai Port Trust on 15<sup>th</sup> September, 2021. Twenty three participants attended from the port.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Inspectorate conducted Safety Awareness Training programme for the Dock Workers working in Kamarajar Port Ltd on 21<sup>st</sup> September, 2021. Thirty four participants attended from the port.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Inspectorate conducted Safety Awareness Training programme for the Dock Workers working in Chennai Port Trust on 22<sup>nd</sup> September, 2021. Thirty five participants attended from the port.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Inspectorate conducted Safety Awareness Training programme for the Dock Workers

working in Chennai Port Trust on 29<sup>th</sup> September, 2021. Twenty six participants attended from the port.

- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Inspectorate conducted Safety Awareness Training programme for the Dock Workers working in Chennai Port Trust on 7<sup>th</sup> October, 2021. Forty three participants attended from the port.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Inspectorate conducted Safety Awareness Training programme for the Dock Workers working in Chennai Port Trust on 19<sup>th</sup> October, 2021. Twenty Eight participants attended from the port.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Inspectorate conducted Safety Awareness Training programme for the Dock Workers working in Chennai Port Trust on 20<sup>th</sup> October, 2021. Forty three participants attended from the port.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Inspectorate conducted Safety Awareness Training programme for the Dock Workers working in Chennai Port Trust on 27<sup>th</sup> October, 2021. Twenty two participants attended from the port.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Inspectorate conducted Safety Awareness Training programme for the Dock Workers working in Chennai Port Trust on 18<sup>th</sup> November, 2021. Twenty two participants attended from the port.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Inspectorate conducted Safety Awareness Training programme for the Dock Workers working in Chennai Port Trust on 25<sup>th</sup> November, 2021. Twenty three participants attended from the port.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Inspectorate conducted Safety Awareness

Training programme for the Dock Workers working in Chennai Port Trust on 2<sup>nd</sup> December, 2021. Nineteen participants attended from the port.

- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Inspectorate conducted Safety Awareness Training programme for the Dock Workers working in Chennai Port Trust on 12<sup>th</sup> December, 2021. Eighteen participants attended from the port.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Inspectorate conducted Safety Awareness Training programme for the Dock Workers working in Chennai Port Trust on 15<sup>th</sup> December, 2021. Thirty seven participants attended from the port.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Inspectorate conducted Safety Awareness Training programme for the Dock Workers working in Chennai Port Trust on 16<sup>th</sup> December, 2021. Twelve participants attended from the port.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Inspectorate conducted Safety Awareness Training programme for the Dock Workers working in Chennai Port Trust on 23<sup>rd</sup> December, 2021. Fourteen participants attended from the port.

### **Inspectorate Dock Safety, Kolkata**

- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the IDS, Kolkata conducted a half day online Awareness Campaign for Dock Workers on Dock Worker (Safety, Health and Welfare) Regulation, 1990 on 5<sup>th</sup> July, 2021. One hundred one participants attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the IDS, Kolkata conducted a half day online Awareness Campaign for Dock Workers on Hazards & Risk on 13<sup>th</sup> July, 2021. Ninety six participants attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the IDS, Kolkata conducted a half day online

Awareness Campaign for Dock Workers on Hazards & Risk on 20<sup>th</sup> July, 2021. One hundred fifty three participants attended the programme.

- To Commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the IDS, Kolkata conducted a half day online Awareness Campaign for Dock Workers on Accident cause & Prevention on 10<sup>th</sup> August, 2021. Ninety six participants attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the IDS, Kolkata conducted a half day online Awareness Campaign for Dock Workers on Monsoon Safety & Health Guide on 17<sup>th</sup> August, 2021. One hundred thirty five one participants attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the IDS, Kolkata conducted a half day Awareness Campaign for Industrial Workers on Dock Workers (Safety, Health and Welfare) Regulations, 1990 on 14<sup>th</sup> September, 2021. Sixty nine participants attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the IDS, Kolkata conducted a half day Awareness Campaign for Dock Workers on Industrial Safety and Hand Injury Cause & Prevention on 21<sup>st</sup> September, 2021. Fifty two participants attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the IDS, Kolkata conducted a half day Awareness Campaign for Dock Workers on Slip, Trip & Fall on 28<sup>th</sup> September, 2021. Forty nine participants attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the IDS, Kolkata conducted a half day Awareness Campaign for Dock Workers on Dock Workers (Safety, Health and Welfare) Regulations, 1990 on 8<sup>th</sup> October, 2021. Eighty seven participants attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the IDS, Kolkata conducted a half day Awareness Campaign for Dock Workers on Dock Workers (Safety, Health and Welfare) Regulations, 1990 on 22<sup>nd</sup> October, 2021. One Hundred Six participants attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the IDS, Kolkata conducted a half day Awareness Campaign for Dock/Industrial Workers on Safety Management/Hazard Control on 28<sup>th</sup> October, 2021. One hundred participants attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the IDS, Kolkata conducted a half day Awareness Campaign for Dock/Industrial Workers on Accident Prevention on 10<sup>th</sup> November, 2021. Two hundred fifty three participants attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the IDS, Kolkata conducted a half day Awareness Campaign for Dock Workers on Dock Workers (Safety, Health and Welfare) Regulations, 1990 on 24<sup>th</sup> November, 2021. Ninety three participants attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the IDS, Kolkata conducted a half day Awareness Campaign for Dock Workers on Dock Workers (Safety, Health and Welfare) Regulations, 1990 on 14<sup>th</sup> December, 2021. One hundred participants attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the IDS, Kolkata conducted a half day Awareness Campaign for Dock Workers on Safety of Crane/Lift/hoist/Lose Gear on 21<sup>st</sup> December, 2021. One Hundred Sixteen participants attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the IDS, Kolkata conducted a half day Awareness Campaign for Dock Workers on Accident Preventions on 5<sup>th</sup> January, 2022. One hundred thirty one participants attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the IDS, Kolkata conducted a half day Awareness Campaign for Dock Workers on Dock Workers

(Safety, Health and Welfare) Regulations, 1990 on 24<sup>th</sup> January, 2022. One hundred thirty four participants attended the programme.

- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the IDS, Kolkata conducted a half day Awareness Campaign for Dock Workers on Safety Management/Accidents on 4<sup>th</sup> February, 2022. Seventy four participants attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the IDS, Kolkata conducted a half day Awareness Campaign for Dock Workers on Dock Workers (Safety, Health and Welfare) Act, 1986 on 21<sup>st</sup> February, 2022. One hundred forty nine participants attended the programme.

### **Inspectorate Dock Safety, Vishakhapatnam**

- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the IDS, Vishakhapatnam conducted an online training programme on “Basic Safety in industries and container yard” on 9<sup>th</sup> July, 2021. Fifty one participants attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the IDS, Vishakhapatnam conducted an online training programme on “Basic Safety in industries and container yard” on 16<sup>th</sup> July, 2021. Thirty four participants attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the IDS, Vishakhapatnam conducted an online training programme on “Basic port safety behavior and safety measures while handling cargo activities” on 16<sup>th</sup> July, 2021. Fifteen participants attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the IDS, Vishakhapatnam conducted an offline training programme on “Safety course for Stevedores” on 22<sup>nd</sup> November, 2021. Sixteen participants attended the programme.

### **Inspectorate Dock Safety, Cochin**

- The Inspectorate Dock Safety, Cochin conducted an online training programme on “Safety, Health and Environment” on 22<sup>nd</sup> April 2021 for Supervisors and Dock Workers of Cochin Port Trust, Kochi. The training programme was attended by twenty four participants.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Inspectorate Dock Safety, Cochin conducted an online Training Programme on “Lifting Appliances & Loose Gears” for the Dock Workers of India Gateway Terminal Pvt.Ltd, Ernakulam, Kochi on 06<sup>th</sup> July, 2021. The training programme was attended by thirty five participants.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Inspectorate Dock Safety, Cochin conducted the Training Programme on “Machine Guarding” for the Workers of Zuari Cement Industries, Willingdon Island, Kochi on 23<sup>rd</sup> July, 2021. The training programme was attended by thirty participants.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Inspectorate Dock Safety, Cochin conducted the Training Programme on “Safety in Cargo Handling Operations” for the Dock Workers of Cochin Port Trust, Kochi on 28<sup>th</sup> July, 2021. The training programme was attended by sixteen participants.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Inspectorate Dock Safety, Cochin conducted the Awareness Training Programme on “Occupational Safety & Health in Port Operations” for the Dock Workers including ITV Drivers of India Gateway Terminal Pvt.Ltd, Ernakulam, Kochi on 12<sup>th</sup> August, 2021. The training programme was attended by one hundred and five participants.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Inspectorate Dock Safety, Cochin conducted the Training Programme on “Occupational Safety & Health in Port Operations” for the Dock Workers of Cochin Port Trust, Kochi on 14<sup>th</sup> September, 2021.

The training programme was attended by seventeen participants.

- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Inspectorate Dock Safety, Cochin conducted the Awareness Training Programme on “Occupational Safety & Health in Plant Operations” for the various employees of Indian Oil Corporation Ltd, Cochin Port, Kochi on 16<sup>th</sup> September, 2021. The training programme was attended by eighty five participants.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Inspectorate Dock Safety, Cochin conducted the Safety Awareness Training Programme on “Industrial Safety on Process Plant” in two sessions for the various employees of Zuari Cement Ltd, Cochin Port, Kochi on 27<sup>th</sup> October, 2021. The training programme was attended by one hundred and three participants.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Inspectorate Dock Safety, Cochin conducted the Training Programme on “Occupational Safety & Health for Dock Workers” for the Workers of India Gateway Terminal Pvt. Ltd, Ernakulam, Kochi on 23<sup>rd</sup> November, 2021. The training programme was attended by one hundred and six participants.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Inspectorate Dock Safety, Cochin conducted the Training Programme on “Occupational Safety & Health in Port Operations” for the Dock Workers under stevedores of Cochin Port Trust, Kochi on 25<sup>th</sup> November, 2021. The training programme was attended by thirty seven participants.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the Inspectorate Dock Safety, Cochin conducted the Safety Awareness Training Programme on “Occupational Safety & Health in Plant Operation” for the various employees of Penna Cement Industries Ltd, Cochin Port, Kochi on 07<sup>th</sup> December, 2021. The training programme was attended by one hundred and six participants.

## **Inspectorate Dock Safety, Jawaharlal Nehru Port, Navi Mumbai**

- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the IDS, J N Port conducted a half day online Awareness Campaign for Industrial Workers on “Industrial Safety & Productivity” on 5<sup>th</sup> July, 2021. Fifty seven participants attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the IDS, J N Port conducted a half day online Awareness Campaign for Industrial Workers on “Hazards & Risk” on 15<sup>th</sup> July, 2021. Thirty one participants attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the IDS, J N Port conducted a half day online Awareness Campaign for Industrial Workers on “Accident Cause & Prevention” on 2<sup>nd</sup> August, 2021. Thirty participants attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the IDS, J N Port conducted a half day online Awareness Campaign for Industrial Workers on “Monsoon Safety & Health Guide” on 16<sup>th</sup> & 27<sup>th</sup> August, 2021. Forty one participants attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the IDS, J N Port conducted a half day Awareness Campaign for Industrial Workers on “Slip, Trip & Fall” on 21<sup>st</sup> December, 2021. Forty five participants attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the IDS, J N Port conducted a half day Awareness Campaign for Industrial Workers on “Industrial Safety and Hand Injury Cause & Prevention” on 21<sup>st</sup> December, 2021. Thirty five participants attended the programme.
- To commemorate the 75<sup>th</sup> Anniversary of Indian Independence (Azadi Ka Amrit Mahotsav) the IDS, J N Port conducted a half day Awareness Campaign for Industrial Workers on “Snake/Insect Bite & Scorpio/Bee/Wasp sting” on 30<sup>th</sup> December, 2021. Twelve participants attended the programme.

**Study of Breathing Air Quality of Compressor was conducted at Marine Services Industries in Maharashtra (Ms. Acharekar, D. H, Central Labour Institute)**

Study of Breathing Air Quality of Compressor was conducted at Marine service Industries, to measure the concentration level of carbon dioxide, carbon monoxide, oil mist, odour, relative humidity, temperature etc. It was found that all the parameter well within its limit as per IS 9623-2008 specification. It was suggested that while compressor is in operating condition, nearby area shall be free from dust/smoke.

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**Asbestos Fiber counting at working environment was conducted at Asbestos Cement Sheet Manufacturing Industry in W.B. (Dr. Chaugule, Suryakant, RLI, Kolkata)**

The study was carried to Evaluate Asbestos Fiber and possible cause to human health as per standards in operation. The method used to counting fiber under phase contras Microscope. The NIOSH Analytical method and sample collection technique was used to evaluate the Asbestos Fiber Counting. All the sample collected has been counted for Asbestos fiber and found that the fiber counted was all within permissible limit i.e. Factory Act Schedule 2 = 1 fiber /m<sup>3</sup>.

The recommendations proposed in this study are Local Exhaust Ventilation system must be regularly checked and maintained Storage and Handling of asbestos Bags properly and regular cleaning by wet method. Regular Environment monitoring by internal external agency should be carried out.



## 6.0 OSH IN FACTORIES

### About Statistics Cell, DGFASLI

The Statistical Cell, under Factory Advice Service (FAS) division, collects and compiles Occupational Safety and Health (OSH) statistics and other information, from Chief Inspector of Factories / Director of Industrial Safety and Health of State/UT governments, related to the administration of the Factories Act, 1948 and rules framed thereunder. This information base/database is used in planning and implementation of national policies concerning OSH as well as preparing replies to the various parliament questions and queries related to RTI. Apart from this, the Statistical Cell publishes and provides materials for various publications pertaining to the Occupational Safety and Health.

### OSH Data of registered factories (2011-2019)

Year	No. of Registered Factories	Total Employment	Dangerous Occurrences	Fatal Injuries	Non-fatal injuries	Total Injuries	Fatal injuries per lakh workers	Non-fatal injuries per lakh workers	Total injuries per lakh workers	Fatal injuries per thousand registered factories	Non-fatal injuries per thousand registered factories	Total injuries per thousand registered factories
2011	325209	11634070	649	1394	28805	30199	11.98	247.59	259.57	4.29	88.57	92.86
2012	353684 (8.76%)	14910645 (28.16%)	1310 (101.85%)	1317 (-5.52%)	28700 (-0.36%)	30017 (-0.6%)	8.83 (-26.28%)	192.48 (-22.26%)	201.31 (-22.44%)	3.72 (-13.13%)	81.15 (-8.39%)	84.87 (-8.61%)
2013	340226 (-3.81%)	14042410 (-5.82%)	1343 (2.52%)	1312 (-0.38%)	26852 (-6.44%)	28164 (-6.17%)	9.34 (5.78%)	191.22 (-0.65%)	200.56 (-0.37%)	3.86 (3.56%)	78.92 (-2.74%)	82.78 (-2.46%)
2014	361994 (6.4%)	20034859 (42.67%)	1534 (14.22%)	1266 (-3.51%)	25500 (-5.04%)	26766 (-4.96%)	6.32 (-32.37%)	127.28 (-33.44%)	133.60 (-33.39%)	3.50 (-9.31%)	70.44 (-10.75%)	73.94 (-10.68%)
2015	348429 (-3.75%)	16374546 (-18.27%)	1091 (-28.88%)	1107 (-12.56%)	20257 (-20.56%)	21364 (-20.18%)	6.76 (6.99%)	123.71 (-2.8%)	130.47 (-2.34%)	3.18 (-9.16%)	58.14 (-17.47%)	61.32 (-17.07%)
2016	360949 (3.59%)	17376854 (6.12%)	700 (-35.84%)	1189 (7.41%)	5367 (-73.51%)	6556 (-69.31%)	6.84 (1.21%)	30.89 (-75.03%)	37.73 (-71.08%)	3.29 (3.68%)	14.87 (-74.42%)	18.16 (-70.38%)
2017	339931 (-5.82%)	16409493 (-5.57%)	1382 (97.43%)	1084 (-8.83%)	4866 (-9.33%)	5950 (-9.24%)	6.61 (-3.46%)	29.65 (-3.99%)	36.26 (-3.89%)	3.19 (-3.19%)	14.31 (-3.73%)	17.50 (-3.63%)
2018	364268 (7.16%)	18724733 (14.11%)	1124 (-18.67%)	1154 (6.46%)	4528 (-6.95%)	5682 (-4.50%)	6.16 (-6.81%)	24.18 (-9.49%)	30.34 (-16.33%)	3.17 (-0.63%)	12.43 (-13.13%)	15.60 (-10.86%)
2019	355478 (-2.41%)	18552909 (-0.92%)	1371 (21.98%)	1127 (-2.34%)	3927 (-13.27%)	5054 (-11.05%)	6.07 (-1.46%)	21.17 (-12.45%)	27.24 (-10.22%)	3.17 (0.00%)	11.05 (-11.10%)	14.22 (-8.85%)

**Source:** Data collected by DGFASLI through correspondence with Chief Inspector of Factories (CIF) and Directorate of Industrial Safety and Health (DISH) of States/UTs. The table doesn't include data pertaining to West Bengal as it is not provided to this Directorate.

**N.B.:** Figures in the bracket indicate percentage change as compared to the previous year.

The above table shows Occupational Safety and Health data of last 9 years (2011-2019) of factories registered under Factories Act, 1948.

The following observations can be made from the data:

- The no. of registered factories hovers around 3.5 lakh over the years. In the year 2019, the numbers of registered factories were 355478 and it is seen that there was a decline of 2.41%.
- The total employment in registered factories reported a minimal decline of 0.92%. In the year 2019, it was 18552909.

- The no. of registered factories and the total employment reported minimum change compared to the last year. This could probably due to unavailability of the year 2019 data from the state of West Bengal.
- It can be seen that in 2019, there is an increase of about 22% in the number of Dangerous Occurrence while there is decrease in the number of injuries i.e. both fatal and non-fatal injuries as compared to the previous year.
- The no. of fatal injuries per lakh workers and non-fatal injuries per lakh workers in the registered factories have been declining since last three years.
- It can be noted that total injuries per lakh workers and total injuries per thousand registered factories have shown a consistent declining trend since 2011 i.e. each year the injury rate is lower than the previous year.

**Trend Analysis: Accidents, Fatal and Non-fatal injuries reported in the factories registered under the Factories Act, 1948 in Puducherry (Jan-Oct, 2021)**

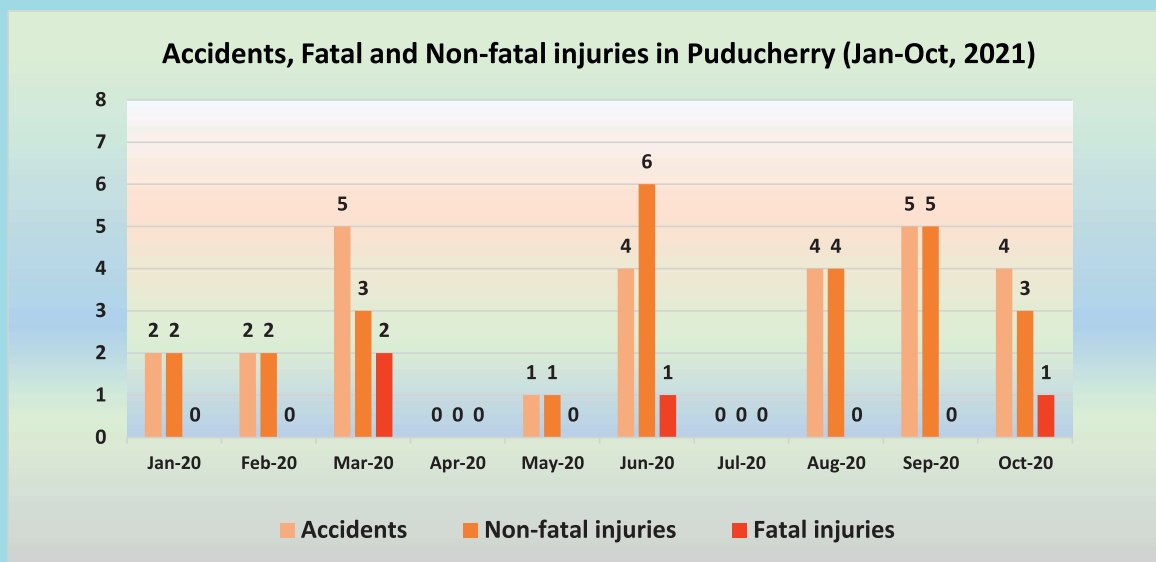
Month	No. of accidents	Cumulative (No. of accidents)	No. of injuries (fatalities)
Jan-2021	2	2	0
Feb-2021	2	2	0
Mar-2021	5	3	2
Apr-2021	0	0	0
May-2021	1	1	0
Jun-2021	4	6	1
Jul-2021	0	0	0
Aug-2021	4	4	0
Sep-2021	5	5	0
Oct-2021	4	3	1
<b>Total</b>	<b>27</b>	<b>26</b>	<b>4</b>

The above table shows the no. of fatal accidents and injuries (fatalities) reported in the factories registered under the Factories Act, 1948 in Puducherry during Jan-Oct, 2021.

It can be observed that the largest number of cases i.e. 5 accidents were reported in the month of March and September, February while largest numbers of non-fatal injuries i.e. 6 were reported in June.

A total of 4 fatal injuries were reported during the period, out of which 2 were reported in March.

It can be seen that the months of April and July reported no accidents, fatal injuries or non-fatal injuries during the period



### OSH Statistics in Docks

The Dock Workers (Safety, Health and Welfare) Act, 1986 and the Regulations 1990 framed there-under cover safety, health and welfare aspects of all the workers engaged in dock work within the port premises. These statutes are in line with the ILO Convention No. 152 on Occupational Safety and Health (Dock Work).

The DGASLI through the Inspectorates of Dock Safety set up in all the major ports in India, enforces the Dock Workers (Safety, Health and Welfare) Act, 1986 and the Regulations, 1990 and strives to ensure Safety, Health and Welfare of dock workers. The Chief Inspector of Dock Safety is also an authority for enforcement of the Manufacture, Storage and Import of Hazardous chemicals Rules, 1989 framed under the Environment (Protection) Act, 1986 in the major ports.

The above statutes are enforced by the Inspectors posted at Inspectorate Dock Safety at all the major ports viz. Mumbai, Kolkata, Chennai, Kandla, Mormugao, New Manglore, Cochin, Tuticorin, Visakahapatnam, Paradip and Jawaharlal Nehru Port except Ennore where the Inspectorate is being set up. Presently, the enforcement in this Port is carried out by the Inspectors posted in Inspectorate Dock Safety, Chennai.

The main function of Inspectorates is to ensure the compliance with the provisions under the statutes. The statutory responsibilities of Inspectors include inspection of ships, tankers, loose-gears, container-handling equipment, docks container-yard and terminal, prosecution of employers, attending to complaints, providing advisory services. The Inspectorate also prosecutes the agency responsible for serious violation of provision of the Act and Regulations framed there-under.

<b>Activities carried out from July, 2021 to December, 2021</b>	
<b>Activity</b>	<b>Total</b>
Total number of Ship Inspected	113
Total number of Gear Inspected	104
Total number of Dock/Shed/Yard/ Warehouse/Go-down/storage yard, etc. Inspected	214
Total number of other visits carried out	485
Total number of Hazardous Installations Inspected	10
Total number of reportable Fatal Accidents as per dock safety statutes	14
Total number of reportable Non-Fatal Accidents as per dock safety statutes	7
Total number of reportable Accidents as per dock safety statutes	21

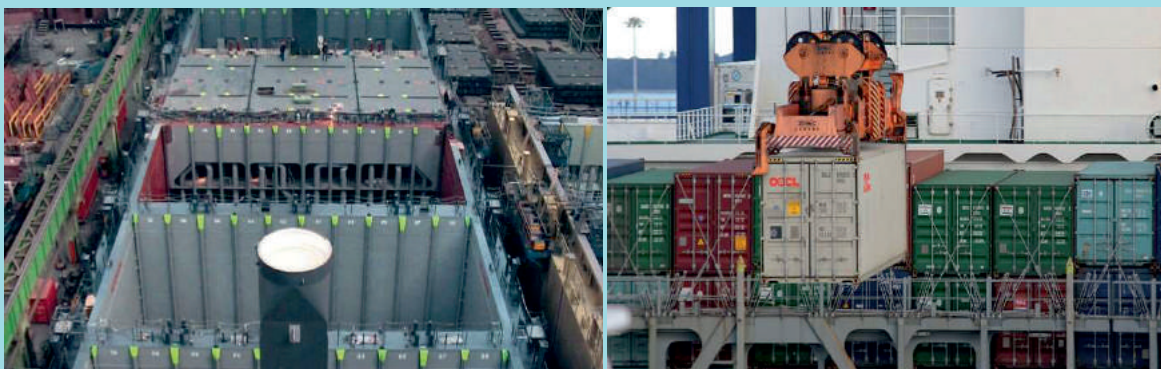
### Accident Case Studies - Port Sector

#### Case study No. 1

While loading container (40') with the help of ship's crane into the hold of the ship, the spreader got partly disengaged. It caused container to entrap in the cell-guide slots in inclined position. After complete disengaging container manually from spreader, the container slid down freely & fell on the top of the other containers available underneath. The four containers & spreader used in this case have been damaged.

#### Remedial measures –

- Ensure proper locking position of all twist locks of spreader before lifting the container from trailer chassis.
- Ensure plumb (exact vertical) position & alignment of container in the sliding slot while lowering the container into the hatch.
- Container spreader shall be maintained in good working order.
- Visual examination of the spreader & attached safety devices has to carry out by responsible person & ensure it is in good working order before taking spreader into use in every shift.
- Periodical test & examination of lifting appliances & loose gears like container spreader, wire ropes, etc. shall be carried by Govt. approved competent person.
- Damaged spreader shall not be taken into use until it is thoroughly examined & tested by government approved competent person.
- All twist locks shall undergo for crack detection test (NDT test) periodically as specified by manufacturer of the twist locks, through Govt. approved competent person.
- Suitable tailor made training should be imparted to crane operator(s) for jerk less & smooth handling of container.
- Provide effective supervision during cargo handling operations and extreme care shall be taken during rescue operations.



#### Case study No. 2

During the night shift, few dock workers were engaged on granite block loading on the truck at stock yard for its further transportation to load it into the ship. One of the workers was found missing in the mid night. The stock yard was very close to port railway lines. Steel sheet coil were being unloaded from the railway wagons stationed on both railway lines, with the help of mobile cranes. Discharging of coils was completed in the early morning so all the wagons were shifted and clearance was given to new wagons to arrive on these lines. After placement of wagons on both lines, during supervision of unloading work the supervisor saw body parts of missing person were lying on the railway tracks below railway wagons.

#### Remedial measures –

- Monitor & control haphazard movements of the workers during dock work and ensure that dock workers use proper & safe passage for movement within docks premises.
- Strict & effective supervision shall be provided during the cargo handling operations.

- All possible efforts shall be made to restrict workers from crossing railway line & passing underneath the stationed railway wagon.
- Only OSH trained and medically examined & physically fit workers shall be permitted to enter docks premises for dock work.
- Ensure provision of suitable PPEs & its use by dock workers while carrying out dock work.
- SOPs shall be prepared & implement strictly while handling cargo by Railway wagons.
- Implement all the related provisions under the Reg. 61 of the Dock Workers (Safety, Health and Welfare) Regulations, 1990 strictly in the port vicinity during handling the cargo by railway rakes/wagons.



### Case study No. 3

Fuel was being filled by portable pump in the tank of the Mobile Harbour Crane (MHC) stationed on the berth. The crane was in standstill (Engine Off) condition. After completion of filling fuel, one dock worker was shifting bunkering accessories to store room. He noticed minor fire broke near tyre of the crane. So he brought extinguisher & tried to extinguish the fire. But by that time fire became uncontrolled. The crane operator sitting in the operator's cabin was then instructed to leave the crane & come down. Since there was no escape way, the operator (victim) jumped from top of counter weight into the net hold by other dock workers. But could not land into the net, fell down on the wharf, sustained serious injuries and succumbed due to injuries later on.

### Remedial measures –

- Fire protection system shall always be kept readily available and maintained in good working order.
- Fire extinguisher shall always be kept stand by till fuel filling process is completed, all the bunkering accessories are fully shifted and during cargo handling process.
- Display board like 'No Smoking Zone' or other cautionary notices shall be displayed at prominent places.
- Hazards in dock work, crane operations, filling fuel, etc. shall be informed to all related dock workers well in advance and they shall be kept informed about means of escape in case of fire.
- 'DoNot Safe Land Device' shall be procured & kept standby for emergency situation.
- Effective supervision shall be strictly implemented.
- Work system pertaining to non-routine activities especially fuelling of mobile harbor crane(s) develop and implement the permit to work system pertaining to non-routine activities especially fuelling of mobile harbor crane(s) in order to prevent such recurrence.
- Create mass awareness amongst the dock workers about the cause(s) of this accident.
- Display emergency service contact number at each berth, storage place, shed, etc.
- Impart training to all key personnel in handling the emergencies.



#### Case study No. 4

One mazdoor was engaged for discharging of HR Sheet Coils from railway wagon with the help of mobile crane. There were two heavy coils available in the wagon out of which one was discharged earlier. The victim & other two workers slung the rest coil by wire rope sling, attached the sling hand with mobile crane's hook and signaled to lift the coil. When crane operator began to lift the coil, the victim found that the sling is loose & therefore he turned back to place it properly. While lifted coil swung and hit the victim on his chest. He was crushed between coil & wall of the wagon and succumbed to serious internal injuries.

#### Remedial measures –

- All the lifting appliances & loose gears shall be maintained in good working condition and shall be tested & examined periodically by Govt. approved competent person.
- No worker shall be allowed to remain within danger zone & cargo handling operations shall be carried out under strict supervision.
- Well trained signaler shall be provided and ensure the lifting of cargo vertically in plumb line.
- Dock workers shall be kept informed about kind of work, working conditions, hazards involved in handling such type of heavy cargo in enclosed compartment of wagon.



## Accident Case Studies – Manufacturing Sector

### Case Study No. 1.

#### Accident with Conveyors belt.

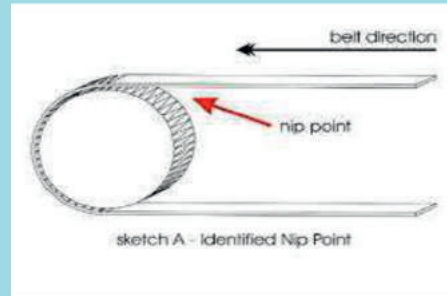
One worker was detailed for the purposes of lifting the coal spillage by spade/ square shovel and putting this coal spillage on moving conveyor belt in industry in night shift. The Shovel of the worker came in contact with moving belt and got caught between tail pulley and bottom belt/return belt. Due to that, the worker tried to remove it, but he sustained injury to his hand.

#### Remedial Measures–

- In such incident, the worker and his supervisor should have knowledge about the hazards.
- The worker should have been trained to use proper tools and equipments.
- Safe guard should be provided to all rotating and moving belt.
- Proper communication should be used with supervisor and other co-workers to call in emergency.
- To avoid such incidents, emergency power off/ stop switches should be provided and workers should be aware about such facility.
- Proper initial and periodical OSH training should be provided to all working persons in industry with identification of hazards involved in workplace.
- Safety posters/banners should be provided in working area.
- Safety committee members should be trained and should understand the hazards present
- Safe operating procedures must be strictly followed for carrying out any non-regular job.
- Proper PPEs. Tools and equipments should be provided to workers.
- Sufficient Illumination should be ensured at workplace.



Conveyor Belt



Nip points at conveyor belt

### Case Study No. 2

#### Accident during shifting of motor by Chain Pulley

Four maintenance workers were engaged for shifting of compression motor by using chain pulley to required position in compression house. The chain pulley was attached to the steel joist of height approximately ten feet. While working, a chain is required to be pulled to desired position. For making chain on position, one worker was standing on electrical panel which was fixed to wall by holding angles for moving the chain. The approximate height of electrical panel top was seven feet. Suddenly the worker fell down on the cement concrete floor which was oily, on his back side which caused injury on his head

#### Remedial Measures -

- The worker and his supervisor should have knowledge about the hazards.



- Work permit system should be followed for any maintenance work.
- Supervisor should be engaged with non routine work.
- Safety posters/banners should be provided in working area.
- Proper method of climbing like ladder should be used to avoid such accident at working at height.
- Flooring should be kept clean to avoid slip and fall.
- Use of proper PPEs should be made mandatory while working.



Chain Pulley

### **Azadi ka Amrit Mahotsav (AKAM)**

DGFASLI is organizing nation-wide awareness campaign, on the occasion of 75<sup>th</sup> Anniversary of the Indian Independence, under the AMRUT Mahotsav, for Safety and Health for the workers employed in factories, docks and construction sites with a view to promote occupational safety and health and for prevention of occupational Injuries and disease.

#### **Objective**

The objective is to create awareness amongst the workers on occupational safety and health, so that the workers can understand the importance of safe working, following of safe operating procedures, etc for preventing occupational injuries and diseases.

#### **Highlights**

Each officer has been assigned target of number of workers to be covered. The officers are conducting the programs in both online and in the field mode. The awareness campaign has been started from 1<sup>st</sup> July 2021 and the programs are organized free of cost.

Till date more than 32,000 workers from industries, ports and construction sites have been trained in the area of occupational safety and health. It is envisaged to cover 1,00,000 workers in the country during the Azadi ka Amrit Mahotsav celebrations.

### **Construction Advice Service Division**

The Ministry of Labour and Employment in June 2021 has approved creation of Construction Advice Service Division in DGFASLI for the administration of the Building and other Construction Workers (Regulation of Employment and Conditions of Service) Act, 1996 and Rules, 1998.

The division organized a virtual National Conference on OSH in construction Industry on 30<sup>th</sup> September 2021. Under the Azadi ka Amrit Mahotsav, the division is organizing specialized training campaign for workers at their construction sites on Safety and Health with emphasis on the use of PPE. Practical demonstrations on proper use of PPE are organized during the campaign.

The division has prepared a booklet on "Occupational Safety and Health in Construction Industry" for Workers and a "Construction Safety Manual" for Supervisor. The two publications will be released on 11<sup>th</sup> March 2022, during the ICONIC Week celebrations under the Azadi Ka Amrit Mahotsav.

### **The Occupational Safety, Health and Working Conditions Code, 2020 and the Occupational Safety, Health and Working Conditions (Central) Rules, 2021**

- The Government of India has enacted Occupational Safety Health and Working Conditions Code, 2020 and the same has been assented by Hon'ble President of India.
- DGFASLI has been part of the Occupational Safety, Health (Central) Rules making committee under the Occupational Safety, Health and Working Conditions Code, 2020.
- The Government of India has constituted four Expert Committees for the purpose of framing standards on provisions relating to Safety, Health and Welfare as under Sections 18, 23 and 24 of the Occupational Safety, Health and Working Conditions Code, 2020 pertaining to Factories, Dock Works, Building & Other Construction Works and Fire Safety. The following two Expert Committees are being headed by Director General, DGFASLI:

- a) Expert Committee for the purpose of framing standards on provisions relating to Safety, Health and Welfare for workplaces relating to Factories, and
- b) Expert Committee for the purpose of framing standards on Occupational Safety and Health for workplaces relating to Dock Work.

### **Framing of Standards and Rules by the Expert Committee for Factories**

#### **[Standards under Section 18 and Rules under Sections 23&24 of the Occupational Safety, Health and Working Conditions (OSH&WC) Code, 2020 pertaining to Factories]**

The Government of India has enacted the 'Occupational Safety, Health and Working Conditions Code, 2020 which has been assented by the Hon'ble President of India on 28<sup>th</sup> September, 2020. The said Code subsumes 13 labour laws which consolidates and amends the laws regulating the occupational safety, health and working conditions of the workers/employees employed in establishment as defined under the Code.

In this context, Ministry of Labour and Employment, Government of India vide office order no. Z-16025/04/2020-ISH (e-120298) dated 25<sup>th</sup> March, 2021, constituted four Expert Committees for the purpose of framing Standards on the Occupational Safety and Health for workplaces under Section 18 and Rules under Sections 23 and 24 of the Occupational Safety, Health and Working Conditions Code, 2020 pertaining to Factories, Dock Works, Building & Other Construction Works and Fire Safety. Dr. R.K. Elangovan, Director General, DGFASLI is the Chairman of the Expert Committee for Factories. In order to facilitate smooth conduct of proceedings of meetings, a team of officers of DGFASLI are also involved as internal committee members and assigned the task to assist the Expert Committee for factories by providing technical inputs available as under existing statutes.

The Secretary, Ministry of Labour and Employment chaired the VC meeting and it was attended by members of all the four Expert Committees for framing standards /rules under Sections 18, 23 and 24 of the Occupational Safety, Health and Working Conditions Code, 2020. It was emphasized that framing of rules/ standards under Sections 18, 23 and 24 of the Occupational Safety, Health and Working Conditions Code, 2020 should be completed within the timeframe given in the order issued by Ministry as stated above.

Online/offline meetings were held involving members of Expert Committee for factories, invited CIFs/DISH from the states of Maharashtra, Karnataka and Uttarkhand, and experts from Medical field and other specific areas. The Expert Committee has categorized the draft standards under the following headings:

- General Safety and Health
- Machinery and Equipment
- Dangerous Operations
- Hazardous Processes Industries

In view of the change in technological advancement, modernisation, mechanisation and up-gradation of the working systems in factories, new topics have been incorporated in order to cater to the requirements of the above said emerging new areas of technology as well as further strengthening of safety systems in factories. A separate Expert Committee has been constituted for Fire Safety Standards and hence, the existing provisions related to Fire Safety have not been included in the draft standards pertaining to factories framed under OSH&WC Code, 2020. The Expert Committee has submitted the following:

1. Draft Standards under Section 18 of the Occupational Safety, Health & Working Conditions Code, 2020.
2. Draft Rules under Sections 23 and 24 of the Occupational Safety, Health & Working Conditions Code, 2020.

## National Studies

DGFASLI has constituted teams of officers for conducting Studies in the following areas. The study team are expected to submit report by July 2022 subject to Covid -19 pandemic guidelines issued by the Central/ State government and local bodies.

- a) National Study on health issues faced by Textile Workers in textile industries.
- b) National Study on Major Accident Hazards Control System in factories.
- c) National Study on Industrial Hygiene in factories.
- d) National Study on Occupational Health in factories.
- e) National Study on Work Environmental Monitoring in factories.
- f) Regional Study on OSH in Automobile and auto-ancillary factories
- g) Regional Study on OSH in ferrous and non ferrous factories.
- h) Regional Study on OSH in Engineering industries

### National Study on Safety and Health issues in Textile Industry

#### Background:

Ministry of Textile, enquired about any assessment of health issues of the workers in textile industry, has been carried out in the recent past. In January 2020, Ministry of Labour and Employment asked DGFASLI to formulate a study on the safety and health issues of the workers.

Director General constituted study teams from the labour institutes under DGFASLI. Initially the checklist and questionnaire was prepared.

Data on different types of textile industries has been collected from state governments. Based on the data received from the state governments, the sample size was determined. It has been decided that the sample size will be 10% of the industry in each segment.

The study involves field visits to the Textile Industry. For the study purpose, the textile industry has been classified into 4 segments:

1. Raw material, Fiber formation and Spinning
2. Weaving and Hosiery
3. Bleaching, Dyeing and Printing
4. Clothing, Garment and Apparel

#### Methodology:

The study is being carried out by a multidisciplinary team of officers from safety, hygiene and medical disciplines. A questionnaire has been designed for collection of data. Work environment parameters are measured at the workplace by the team.

#### Present Status States

After the finalization of the questionnaire, the study was initiated. The study was stopped due to COVID 19 pandemic. Till the time, the following states have been covered:

1. Jharkhand
2. Bihar
3. Karnataka
4. Puducherry
5. Maharashtra

### **Five workers die while cleaning effluent tank at pharma unit in Gandhinagar district, Gujarat**

On 6<sup>th</sup> November 2021, five workers died of asphyxiation after inhaling toxic gas while cleaning an underground tank at a pharmaceutical unit in Kalol taluka of Gandhinagar district in Gujarat state. The incident occurred at an effluent treatment plant of the pharmaceutical unit while cleaning the tank, which stores the factory's liquid waste.

Although there was hardly any liquid waste in the tank, the workers were unaware about the presence of toxic gas inside it. While cleaning the tank as one of the workers fainted inside the tank, following which four others entered one after another to rescue him and eventually died because of inhaling the toxic fumes which is usually found in tanks that have effluents. The root cause of the accident is yet to come.



### **One dead in an accident involving industrial robot in an automobile component factory**

On 24<sup>th</sup> February, 2021 a 44-year-old employee at the Chakan plant of Automotive Stampings and Assemblies Ltd (ASAL), an automobile component factory, died after being critically injured in an accident involving an industrial robot. The deceased had been working with the company as a welder for the last 22 years. He was working at a robotic assembly line. Standing next to the assembly line, sustained critical injuries on his head and neck after a robotic unit fell on him due to a possible snag in a sensor. The deceased was not wearing a safety helmet at the time of the accident. The root causes of the accident are yet to come.

### **Three workers injured in explosion at chemical factory**

Three workers were injured when a solvent vessel exploded accidentally within the premises of a chemical factory in Attibele Industrial Area, Bengaluru on Friday 24<sup>th</sup> September 2021. The blast resulted in a chemical leak which in turn released a pungent odour within a radius of several hundred metres. The blast occurred at Lake Chemicals Pvt. Ltd., a pharmaceutical-related plant. Eight workers were at the spot when the solvent vessel burst, splattering chemicals around. Two workers sustained significant injuries, while another person sustained minor injuries. All the injured workers were shifted immediately to a private hospital for medical treatment. The root causes of the accident are yet to come.

### **Seven workers were died due to boiler explosion in a factory**

At least seven workers were killed and others were injured in a boiler explosion held at a noodle-making factory in Bihar's Muzaffarpur district. The massive explosion took place on 25<sup>th</sup> December 2021 at around 10:00 P.M. with the sound being heard even five kilometres away. The factory in which accident happened was located in the Bela Industrial area destroyed an adjoining flower mill and caused injuries to two labourers sleeping inside. The impact of the explosion was such that the machines and asbestos sheet roof of the building was blown apart and adjoining

factories in the area were also damaged. State Government, of Bihar has announced high level enquiry and action would be taken against the guilty. The root causes of the accident are yet to come.

### **Three workers were died in a cement factory at Porbandar, Gujarat**

The accident was occurred at a factory site of Hathi Cements of the Saurashtra Cement Limited at Ranavav area of Porbandar on 12<sup>th</sup> August 2021 afternoon. Three workers were found dead while three others were rescued in a joint operation by the National Disaster Response Force (NDRF), police and other agencies after they fell inside a chimney at a factory site. Six workers were engaged for painting, dusting, cleaning and renovation work of inside and outside of an 85 metres long chimney. The accident happened due to the scaffoldings on which workers were standing upon during the repair work was collapsed, leading to them falling. The accident occurred exactly when the work was completed and workers started the process of removing scaffoldings.

### **Two workers were died in a chemical factory at Porbandar, Gujarat**

On 13<sup>th</sup> October 2021, an engineer and a welder were died and three others including another engineer, a fitter and a helper were injured when a bucket conveyor system collapsed with raw material fell on them at the soda ash manufacturing plant of Saurashtra Chemicals, a subsidiary of Nirma Group. The accident took place when repair work was going on the overhead container in which raw material was being poured through a conveyor belt. The injured were first rushed to a hospital in Porbandar town. The Deputy Director of Industrial Safety, Gujarat is conducting investigation about the accident the root causes of the accident is yet to come.



**Lifting**  
**Ergonomic way**  
**Keep back pain**  
**at bay**

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## Work at height is not a Circus, Always use a fall Protection



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**Protect yourself and  
others from getting sick  
"Wash your hands"  
-Clean hand Save lives**



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**"Safety is a small investment  
for a bright future"  
Handle Hazardous chemicals carefully**



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## Hearing Protection is a Sound Investment



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# Know Your Limits



Instead of overloading yourself,  
do the job in two trips!!

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## STAY ALERT Near Moving Equipment



Hazards come from  
all directions

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# FIRST AID

## Chemical Burn



**Ensure that the area is safe and that you are protected from the chemical. This may involve wearing personal protective equipment (PPE)**



**Locate the Safety Data Sheets. This will include details of PPE requirements and specific first aid procedures.**



**The burn area should be flooded with water for 20 minutes to ensure that there is no contamination from the chemical to other areas of the body.**



**For eye burn, rinse the injured eyes under a faucet, in a gentle shower, or with a work site eye-wash station. Hold the injured eyes open and flush them with a gentle stream of water for 10-15 minutes.**



**All chemical burns require professional medical advice following first aid treatment**

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75  
आजादी का  
अमृत महोत्सव

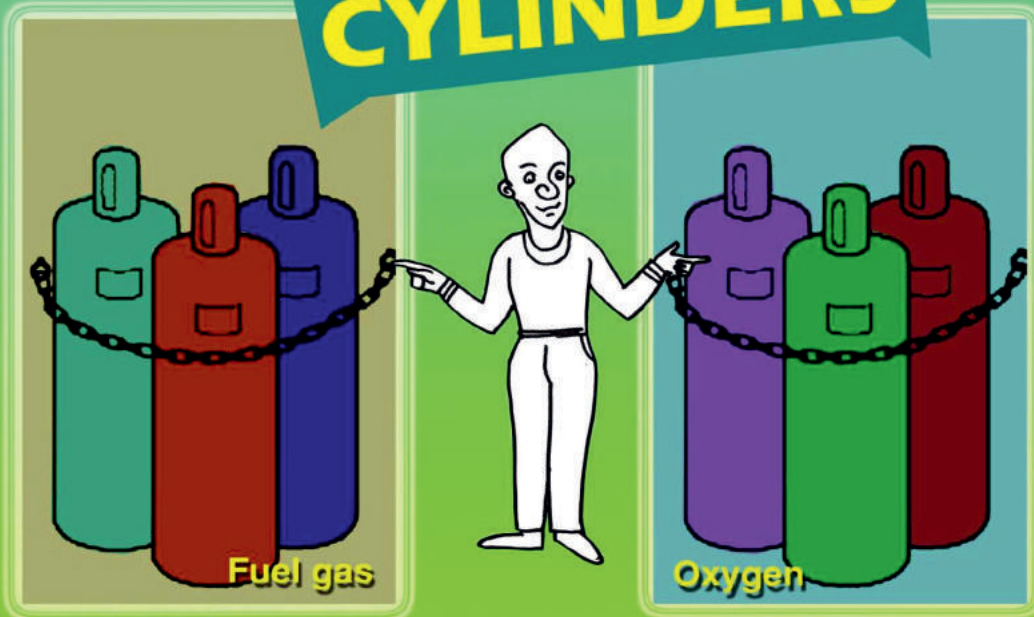
**USE**

**THE RIGHT  
METHOD  
WHILE**



**STACKING**

**CYLINDERS**



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75  
आज़ादी का  
अमृत महोत्सव

# DROP it



# And

# DRIVE



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## 12.0 TRAINING PROGRAMMES ON OSH

### Online Training Programme conducted by DGFASLI Organization

Sl.No.	Name of Programme	Institute	Division	Date	Duration /Mode	No. of Participants	No. of Organization
1.	Assessment of Chemical Exposure in Work Environment	CLI, Mumbai	Industrial Hygiene Division	1 <sup>st</sup> July, 2021 (10.00 - 13.00 hrs.)	Half day online	06	06
2.	Medical response to Major Accident Hazard in Factories	RLI , Kolkata	Industrial Medicine Division	1 <sup>st</sup> July, 2021 (15.00 - 18.00hrs.)	Half day online	07	04
3.	Evaluation and Control of Health Hazards at Workplace	CLI, Mumbai	Industrial Hygiene Division	2 <sup>nd</sup> July, 2021 (10.00 - 13.00 hrs.)	Half day online	05	04
4.	Noise induced Hearing Loss	RLI , Kolkata	Industrial Medicine Division	2 <sup>nd</sup> July, 2021 (15.00 - 18.00hrs.)	Half day online	04	04
5.	The Factories Act, 1948 and Model Factories Rules	DGFASLI, Mumbai	FAS Division	5 <sup>th</sup> July, 2021 (10.00 - 13.00 hrs.)	Half day online	21	13
6.	Fall Prevention and Protection	CLI, Mumbai	NRTL Division	5 <sup>th</sup> July, 2021 (15.00 - 18.00hrs.)	Half day online	09	08
7.	Onsite Emergency Planning for Hazardous Factories	CLI, Mumbai	Major Accident Hazard Control Division	6 <sup>th</sup> July, 2021 (10.00 - 13.00 hrs.)	Half day online	50	25
8.	Hazop	RLI, Faridabad	Industrial Safety Division	7 <sup>th</sup> July , 2021 (10.00 - 13.00 hrs.)	Half day online	21	18
9.	Accident Reporting, Investigation and Analysis	RLI, Faridabad	Industrial Safety Division	7 <sup>th</sup> July , 2021 (14.30 - 17.30 hrs.)	Half day online	08	08
10.	Fire Safety	DGFASLI Mumbai	FAS Division	8 <sup>th</sup> July , 2021 (10.00 - 13.00 hrs.)	Half day online	12	12
11.	Safety Management in Industries	RLI, Faridabad CLI, Mumbai	Industrial Safety Division	8 <sup>th</sup> July , 2021 (14.30 - 17.30 hrs.)	Half day online	04	04
12.	Fire Safety	RLI, Faridabad	Industrial Safety Division	9 <sup>th</sup> July , 2021 (14.30 - 17.30 hrs.)	Half day online	02	02
13.	Safety Management System	RLI , Chennai	Industrial Safety Division	12 <sup>th</sup> July , 2021 (10.00 - 13.00 hrs.)	Half day online	12	12
14.	Effective Safety Audit	RLI , Kolkata	Industrial Safety Division	12 <sup>th</sup> July , 2021 (14.30 - 17.30 hrs.)	Half day online	05	05
15.	Offsite Emergency Planning for Hazardous Factories	CLI, Mumbai	Major Accident Hazard Control Division	12 <sup>th</sup> July , 2021 (15.00 - 18.00 hrs.)	Half day online	22	11
16.	Safety with Hand and Power Tools	RLI , Faridabad	Industrial Safety Division	13 <sup>th</sup> July , 2021 (10.00 - 13.00 hrs.)	Half day online	13	10
17.	Management of Workplace Hazards	CLI, Mumbai	Industrial Hygiene Division	13 <sup>th</sup> July , 2021 (14.30 - 17.30 hrs.)	Half day online	03	03
18.	Safe Material Handling in Industries'	RLI , Chennai	Industrial Safety Division	14 <sup>th</sup> July , 2021 (10.00 - 13.00 hrs.)	Half day online	09	09

Sl.No.	Name of Programme	Institute	Division	Date	Duration /Mode	No. of Participants	No. of Organization
19.	Safe use of Lifting Machines and Tackles	RLI , Faridabad	Industrial Safety Division	14 <sup>th</sup> July , 2021 (14.30 - 17.30 hrs.)	Half day online	05	05
20.	Safety Audit	RLI, Chennai	Industrial Safety Division	15 <sup>th</sup> July , 2021 (10.00 - 13.00 hrs.)	Half day online	12	12
21.	Machinery Safety	RLI, Kanpur	Industrial Safety Division	15 <sup>th</sup> July, 2021 (15.00 – 18.00 hrs.)	Half day online	04	04
22.	"Enhancing Safety through Safety Committee Meetings"	RLI, Kanpur	Industrial Safety Division	20 <sup>th</sup> July, 2021 (10.00 – 13.00 hrs.)	Half day online	13	13
23.	Health effects of Temperature and Ventilation at Workplace	RLI, Kanpur	Industrial Medicine Division	22 <sup>nd</sup> July, 2021 (10.00 – 13.00hrs.)	Half day online	05	05
24.	Health Hazards and Workplace Monitoring in Welding Operations"	RLI, Chennai	Industrial Hygiene Division	22 <sup>nd</sup> July, 2021 (10.00 – 13.00hrs.)	Half day online	01	01
25.	Occupational Safety, Health and Environment Management System	RLI, Kolkata	Industrial Safety Division	22 <sup>nd</sup> July, 2021 (14.30 – 17.30hrs.)	Half day online	19	09
26.	Prevention of Occupational Lung Diseases and Respiratory Protective Equipments	RLI, Kanpur	Industrial Medicine Division	23 <sup>rd</sup> July, 2021 (10.00 – 13.00hrs.)	Half day online	20	15
27.	Health effects of Noise and Vibration at Workplace	RLI, Kanpur	Industrial Medicine Division	26 <sup>th</sup> July 2021 (10.00 – 1300hrs.)	Half day online	17	14
28.	Accident Reporting and Investigation	RLI, Shilong	Industrial Safety Division	26 <sup>th</sup> July, 2021 (14.300 – 17.30hrs.)	Half day online	17	10
29.	Safety in Material Handling	RLI, Kanpur	Industrial Safety Division	27 <sup>th</sup> July, 2021 (10.00 – 1300hrs.)	Half day online	06	06
30.	Safety with Hand and Power Tools	RLI, Kolkata	Industrial Safety Division	27 <sup>th</sup> July, 2021 (14.300 – 17.30hrs.)	Half day online	08	02
31.	Fundamentals of Occupational Health for Safety and Health Professionals	RLI, Kanpur	Industrial Medicine Division	28 <sup>th</sup> July, 2021 (10.00 – 1300hrs.)	Half day online	18	11
32.	Safety in Handling of Hazardous Chemicals	RLI , Chennai	Industrial Hygiene Division	28 <sup>th</sup> July, 2021 (10.00 – 13.00hrs.)	Half day online	03	03
33.	Accident Prevention through OSH Management System	RLI , Shilong	Industrial Safety Division	28 <sup>th</sup> July, 2021 (14.300 – 17.30hrs.)	Half day online	14	11
34.	Basic Occupational Health Services	RLI, Kanpur	Industrial Medicine Division	29 <sup>th</sup> July, 2021 (10.00 – 1300 Hrs.)	Half day online	15	14
35.	Transport Safety at Workplace	RLI, Chennai	Industrial Safety Division	29 <sup>th</sup> July, 2021 (14.300 – 17.30hrs.)	Half day online	17	05

Sl.No.	Name of Programme	Institute	Division	Date	Duration /Mode	No. of Participants	No. of Organization
36.	Surveillance and Monitoring for Notifiable Diseases in Industries and Ports	RLI, Kanpur	Industrial Medicine Division	30 <sup>th</sup> July, 2021 (10.00 – 1300hrs.)	Half day online	13	12
37.	Fork Lift Safety	RLI, Chennai	Industrial Safety Division	30 <sup>th</sup> July, 2021 (14.300 – 17.30hrs.)	Half day online	11	06
38.	Onsite Emergency Planning in Hazardous Factories	CLI, Mumbai	Major Accident Hazard Control Division	2 <sup>nd</sup> August, 2021 (10.00 – 13.00 hrs.)	Half day online	28	08
39.	Effective Leadership for improving Safety Culture	CLI, Mumbai	Staff Training/ Productivity Division	2 <sup>nd</sup> August, 2021 (14.300 – 17.30hrs.)	Half day online	04	03
40.	Safety Culture through effective Communication	RLI, Chennai	Industrial Safety Division	3 <sup>rd</sup> August, 2021 (10.00 – 13.00 hrs.)	Half day online	07	04
41.	Material Handling and Conveyor Safety	RLI, Chennai	Industrial Safety Division	4 <sup>th</sup> August, 2021 (10.00 – 13.00 hrs.)	Half day online	02	02
42.	Motivation for improving OSH	CLI, Mumbai	Staff Training/ Productivity Division	5 <sup>th</sup> August, 2021 (10.00 – 13.00 hrs.)	Half day online	02	02
43.	Management of Chemical Hazards in Industries	CLI, Mumbai	Industrial Hygiene Division	5 <sup>th</sup> August, 2021 (14.30 – 17.30 hrs.)	Half day online	10	06
44.	Management of Hazardous Chemicals	CLI, Mumbai	Major Accident Hazard Control Division	6 <sup>th</sup> August, 2021 (10.00 – 13.00 hrs.)	Half day online	08	08
45.	Crane and Rigging Safety	RLI, Chennai	Industrial Safety Division	6 <sup>th</sup> August, 2021 (14.30 – 17.30 hrs.)	Half day online	21	08
46.	Occupational Health Management at Workplace	CLI, Mumbai	Industrial Medicine Division	9 <sup>th</sup> August, 2021 (10.00 – 13.00 hrs.)	Half day online	04	03
47.	Measuring Safety and Health Performance in Workplaces	CLI, Mumbai	Industrial Safety Division	9 <sup>th</sup> August, 2021 (10.00 – 13.00 hrs.)	Half day online	06	04
48.	Occupational Safety, Health and Environment Management System	RLI, Kolkata	Industrial Safety Division	9 <sup>th</sup> August, 2021 (14.30 – 17.30 hrs.)	Half day online	12	11
49.	First-Aid Tools and Techniques	RLI, Kanpur	Industrial Medicine Division	10 <sup>th</sup> August, 2021 (10.00 – 13.00 hrs.)	Half day online	13	08
50.	Occupational Health in Automobile Industries	RLI, Chennai	Industrial Medicine Division	10 <sup>th</sup> August, 2021 (14.30 – 17.30 hrs.)	Half day online	07	07
51.	Medicalproving Occupational Health and Safety at Work	RLI, Kanpur	Industrial Medicine Division	11 <sup>th</sup> August, 2021 (10.00 – 13.00 hrs.)	Half day online	08	08
52.	Statutory Provision for	DGFASLI	FASDivision	11 <sup>th</sup> August, 2021	Half day	13	13

Sl.No.	Name of Programme	Institute	Division	Date	Duration /Mode	No. of Participants	No. of Organization
	Hazardous Factories	Mumbai		(14.30 – 17.30 hrs.)	online		
53.	Accident Reporting and Investigation	CLI , Mumbai	Industrial Safety Division	12 <sup>th</sup> August, 2021 (10.00 – 13.00 hrs.)	Half day online	06	06
54.	"Plant Inspection Techniques for enhancing Safety"	RLI , Chennai	Industrial Safety Division	12 <sup>th</sup> August, 2021 (14.30 – 17.30 hrs.)	Half day online	04	04
55.	Improving Occupational Safety and Health through Employees Participation	CLI, Mumbai	Staff Training/ Productivity Division	13 <sup>th</sup> August, 2021 (14.30 – 17.30 hrs.)	Half day online	01	01
56.	Selection, use and Care of Respiratory PPEs	RLI, Chennai	Industrial Hygiene Division	13 <sup>th</sup> August, 2021 (10.00 – 13.00 hrs.)	Half day online	04	04
57.	Occupational Safety and Health for Safety Committee Members	RLI, Kolkata	Industrial Safety Division	13 <sup>th</sup> August, 2021 (14.30 – 17.30 hrs.)	Half day online	12	06
58.	Evaluation and Control of Illumination	RLI , Kolkata	Industrial Hygiene Division	16 <sup>th</sup> August, 2021 (10.00 – 13.00 hrs.)	Half day online	06	03
59.	Occupational Health and Safety Audit	RLI, Faridabad	Industrial Safety Division	16 <sup>th</sup> August, 2021 (14.30 – 17.30 hrs.)	Half day online	11	08
60.	Evaluation Monitoring of Noise and Vibration at Workplace	RLI , Kolkata	Industrial Hygiene Division	17 <sup>th</sup> August, 2021 (10.00 – 13.00 hrs.)	Half day online	07	04
61.	Accident Reporting and Investigation	RLI, Shilong	Industrial Safety Division	17 <sup>th</sup> August, 2021 (14.30 – 17.30 hrs.)	Half day online	06	06
62.	Occupational Health Management in Industries"	RLI , Chennai	Industrial Safety Division	18 <sup>th</sup> August, 2021 (14.30 – 17.30 hrs.)	Half day online	07	06
63.	Industrial Housekeeping	RLI, Chennai	Industrial Safety Division	19 <sup>th</sup> August, 2021 (10.00 – 13.00 hrs.)	Half day online	12	03
64.	Chemical Exposure at workplace in Industries	RLI, Chennai	Industrial Hygiene Division	23 <sup>rd</sup> August, 2021 (14.30 – 17.30 hrs.)	Half day online	02	02
65.	Risk Assessment in Storage and Transportation of Chemicals	RLI, Chennai	Industrial Safety Division	23 <sup>rd</sup> August, 2021 (10.00 – 13.00 hrs.)	Half day online	06	05
66.	Dust Hazards – Prevention and Protection	CLI, Mumbai	NRTL Division	24 <sup>th</sup> August, 2021 (10.00 – 13.00 hrs.)	Half day online	25	08
67.	Safety with Wire Ropes	RLI, Chennai	Industrial Safety Division	24 <sup>th</sup> August, 2021 (14.30 – 17.30 hrs.)	Half day online	13	06
68.	Personal Protective Equipment – Eye and Face Protection	CLI , Mumbai	NRTL Division	25 <sup>th</sup> August, 2021 (10.00 – 13.00 hrs.)	Half day online	14	03
69.	Fire Safety in Factories and Docks	DGFASLI, Mumbai	FAS Division	25 <sup>th</sup> August, 2021 (14.30 – 17.30 hrs.)	Half day online	12	09
70.	Injury Prevention and Loss Control at Work Places	CLI, Mumbai	Industrial Safety Division	26 <sup>th</sup> August, 2021 (14.30 – 17.30 hrs.)	Half day online	01	01
71.	Safety with Lifting	RLI, Kanpur	Industrial	26 <sup>th</sup> August, 2021	Half day	13	06

Sl.No.	Name of Programme	Institute	Division	Date	Duration /Mode	No. of Participants	No. of Organization
	Appliances		Safety Division	(14.30 – 17.30 hrs.)	online		
72.	Fundamentals of Industrial Hygiene	RLI, Kolkata	Industrial Hygiene Division	27 <sup>th</sup> August, 2021 (10.00 – 13.00 hrs.)	Half day online	05	05
73.	Ergonomics in Industries	RLI, Kanpur	Industrial Hygiene Division	27 <sup>th</sup> August, 2021 (14.30 – 17.30 hrs.)	Half day online	16	14
74.	Techniques of Hazard Identification and Control in Engineering Industry	RLI, Shilong	Industrial Safety Division	31 <sup>st</sup> August, 2021 (14.30 – 17.30 hrs.)	Half day online	10	03
75.	First-Aid Tools and Techniques and Related Statutory Provs in Industries and Ports	RLI, Kanpur	Industrial Medicine Division	1 <sup>st</sup> September, 2021 (10.00 – 13.00 hrs.)	Half day online	08	06
76.	Safety Audit	RLI , Chennai	Industrial Safety Division	2 <sup>nd</sup> September, 2021 (10.00 – 13.00 hrs.)	Half day online	12	12
77.	State of the Art Tools and Technologies (AI, ML, IOT, AR, VR, Nanotechnology) for Medicalproving Occupational Health and Safety at Work	RLI, Kanpur	Industrial Medicine Division	2 <sup>nd</sup> September, 2021 (14.30 – 17.30 hrs.)	Half day online	10	09
78.	Confined Spaces	DGFASLI, Mumbai	FAS Division	3 <sup>rd</sup> September, 2021 (10.00 – 13.00 hrs.)	Half day online	04	01
79.	Techniques of Hazard Identification and Control in Industry	RLI, Shilong	Industrial Safety Division	3 <sup>rd</sup> September, 2021 (14.30 – 17.30 hrs.)	Half day online	09	06
80.	Chemical Hazard and Safety Management	RLI , Faridabad	Industrial Safety Division	6 <sup>th</sup> September, 2021 (14.30 – 17.30 hrs.)	Half day online	03	03
81.	Hazard Communication System	RLI, Faridabad	Industrial Safety Division	9 <sup>th</sup> September, 2021 (10.00 – 13.00 hrs.)	Half day online	04	03
82.	Safety and Workplace Productivity	RLI , Kolkata	Industrial Safety Division	9 <sup>th</sup> September, 2021 (14.30 – 17.30 hrs.)	Half day online	06	05
83.	Hazard Prevention Techniques	RLI, Kanpur	Industrial Safety Division	10 <sup>th</sup> September,2021 (14.30 – 17.30 hrs.)	Half day online	05	04
84.	Safety Committee Members	RLI , Kolkata	Industrial Safety Division	13 <sup>th</sup> September,2021 (14.30-17.30 hrs.)	Half day online	02	02
85.	Strategy in Prevention Workplaces	RLI, Kolkata	Industrial Safety Division	14 <sup>th</sup> September, 2021 (10.00–13.00 hrs.)	Half day online	05	02
86.	Best Practices for the safe use of Machinery	RLI , Kolkata	Industrial Safety Division	4 <sup>th</sup> September, 2021 (14.30 -17.30 hrs.)	Half day online	01	01
87.	Safety Health and Environment Education and Training	RLI, Kolkata	Industrial Safety Division	5 <sup>th</sup> September, 2021 (14.30-17.30 hrs.)	Half day online	03	03
88.	Safety with Scaffold	RLI ,	Industrial	15 <sup>th</sup> September, 2021	Half day	02	02

Sl.No.	Name of Programme	Institute	Division	Date	Duration /Mode	No. of Participants	No. of Organization
		Faridabad	Safety Division	(10.00 – 13.00 hrs.)	online		
89.	Concept of Industrial Hygiene	CLI, Mumbai	NRTL Division	16 <sup>th</sup> September, 2021 (10.00 – 13.00hrs)	Half day online	05	04
90.	Hazard Identification, Risk Assessment and Control Techniques	RLI, Chennai	Industrial Safety Division	17 <sup>th</sup> September, 2021 (14.30 -17.30 hrs.)	Half day online	16	06
91.	Improving Occupational Safety and Health by Employee Participation	CLI, Mumbai	Staff Training/ Productivity Division	17 <sup>th</sup> September, 2021 (10.00 – 13.00 hrs.)	Half day online	07	04
92.	Chemical Emergency Preparedness	CLI, Mumbai	Major Accident Hazard Control Division	20 <sup>th</sup> September, 2021 (10.00– 13.00 hrs.)	Half day online	40	12
93.	Safety in Construction Industry	RLI, Faridabad	Industrial Safety Division	20 <sup>th</sup> September, 2021 (14.30-17.30 hrs.)	Half day online	11	10
94.	Ergonomics and Manual Material Handling	RLI, Chennai	Industrial Safety Division	21 <sup>st</sup> September, 2021 (14.30-17.30 hrs.)	Half day online	08	07
95.	Enhancing Safety Culture through Effective Communication	CLI, Mumbai	Staff Training/ Productivity Division	21 <sup>st</sup> September, 2021 (10.00 – 13.00 hrs.)	Half day online	06	05
96.	Fundamentals of Industrial Hygiene	CLI, Mumbai	Industrial Hygiene Division	22 <sup>nd</sup> September, 2021 (10.00 – 13.00 hrs.)	Half day online	08	08
97.	Safety in Chemical Handling and Storage	RLI, Kolkata	Industrial Safety Division	22 <sup>nd</sup> September, 2021 (14.30-17.30 hrs.)	Half day online	05	05
98.	PPEs	CLI, Mumbai	NRTL Division	23 <sup>rd</sup> September, 2021 (1000.– 1300 hrs )	Half day online	05	04
99.	Occupational safety, Hygiene and Health in Industries	RLI, Chennai	Industrial Safety Division	23 <sup>rd</sup> September, 2021 (14.30-17.30 hrs.)	Half day online	02	02
100.	Working at Height	RLI, Faridabad	Industrial Safety Division	24 <sup>th</sup> September, 2021 (10.00-13.00 hrs.)	Half day online	05	05
101.	Major Accident Hazards Control	CLI, Mumbai	Major Accident Hazard Control Division	24 <sup>th</sup> September, 2021 (14.30-17.30 hrs.)	Half day online	49	14
102.	Safety Performance Measurement in Industries	RLI, Chennai	Industrial Safety Division	27 <sup>th</sup> September, 2021 (14.30-17.30 hrs.)	Half day online	10	08
103.	Hazard Evaluation: Work Environment Monitoring in Industrial Workplaces	RLI, Chennai	Industrial Hygiene Division	27 <sup>th</sup> September, 2021 (10.00– 13.00 hrs.)	Half day online	02	02
104.	Industrial Hygiene in Chemical Industries	RLI, Kolkata	Industrial Hygiene Division	28 <sup>th</sup> September, 2021 (10.00 – 13.00 hrs.)	Half day online	03	02
105.	Safety Health and Environment	CLI, Mumbai	Industrial Safety Division	28 <sup>th</sup> September, 2021 (14.30-17.30 hrs.)	Half day online	02	02

Sl.No.	Name of Programme	Institute	Division	Date	Duration /Mode	No. of Participants	No. of Organization
106.	Investigation and Prevention of Accidents in Factories and Docks	RLI, Chennai	Industrial Safety Division	29 <sup>th</sup> September, 2021 (14.30-17.30 hrs.)	Half day online	03	03
107.	Management of Heat stress and Ventilation in industries	CLI, Mumbai	Industrial Hygiene Division	30 <sup>th</sup> September, 2021 (10.00 – 13.00 hrs.)	Half day online	04	04
108.	Enhancing safety through Employee Participation	RLI , Chennai	Industrial Safety Division	30 <sup>th</sup> September, 2021 (14.30-17.30 hrs.)	Half day online	03	03
109.	Evaluation of Physical and Chemical Hazards at Workplaces	RLI , Kolkata	Industrial Hygiene Division	1 <sup>st</sup> October, 2021 (14.30-17.30 hrs.)	Half day online	04	04
110.	Workplace Safety	RLI, Kolkata	Industrial Safety Division	4 <sup>th</sup> October, 2021 (14.30-17.30 hrs.)	Half day online	04	04
111.	Occupational Health	RLI, Chennai	Industrial Medicine Division.	4 <sup>th</sup> October, 2021 (10.00-13.00 hrs.)	Half day online	12	12
112.	Confined Space	RLI, Chennai	Industrial Safety Division	5 <sup>th</sup> October, 2021 (14.30-17.30 hrs.)	Half day online	07	07
113.	Prevention of Hazards in Industries	RLI , Kolkata	Industrial Safety Division	5 <sup>th</sup> October, 2021 (14.30-17.30 hrs.)	Half day online	04	04
114.	Occupational Cancer	RLI, Kanpur	Industrial Medicine Division	6 <sup>th</sup> October, 2021 (10.00-13.00 hrs.)	Half day online	08	08
115.	Pressure Vessel Safety and case Study	RLI, Faridabad	Industrial Safety Division	6 <sup>th</sup> October, 2021 (14.30-17.30 hrs.)	Half day online	04	04
116.	Medical Emergency Management	RLI, Chennai	Industrial Medicine Division	7 <sup>th</sup> October, 2021 (10.00-13.00 hrs.)	Half day online	14	09
117.	Safe Guarding of Machines	RLI , Faridabad	Industrial Safety Division	7 <sup>th</sup> October, 2021 (14.30-17.30 hrs.)	Half day online	17	07
118.	Safety during Maintenance	RLI, Faridabad	Industrial Safety Division	8 <sup>th</sup> October, 2021 (14.30-17.30 hrs.)	Half day online	15	04
119.	Medical Management of Occupational Poisonings	RLI, Kanpur	Industrial Medicine Division	8 <sup>th</sup> October, 2021 (10.00-13.00 hrs.)	Half day online	15	10
120.	Accident Prevention and Investigation Technique at Workplace	RLI, Chennai	Industrial Safety Division	11 <sup>th</sup> October, 2021 (10.00-13.00 hrs.)	Half day online	08	08
121.	Slings and Hoisting Safety	RLI, Chennai	Industrial Safety Division	11 <sup>th</sup> October, 2021 (14.30 – 17.30 hrs.)	Half day online	11	10
122.	Recognition, Evaluation and Control of Particulate matters in industries	CLI, Mumbai	Industrial Hygiene Division	12 <sup>th</sup> October, 2021 (14.30 – 17.30 hrs.)	Half day online	07	02
123.	Role of Executive in Promoting Safety	RLI, Faridabad	Industrial Safety	12 <sup>th</sup> October, 2021 (10.00-13.00 Hrs.)	Half day online	11	04



Sl.No.	Name of Programme	Institute	Division	Date	Duration /Mode	No. of Participants	No. of Organization
	and Health in Industries		Division				
124.	Techniques for Safe Plant Operation	RLI, Kolkata	Industrial Safety Division	13 <sup>th</sup> October, 2021 (14.30 – 17.30 hrs.)	Half day online	05	02
125.	Role of Housekeeping on Safety	RLI, Faridabad	Industrial Safety Division	13 <sup>th</sup> October, 2021 (10.00-13.00 hrs.)	Half day online	02	02
126.	Hazards with Welding Operations	CLI, Mumbai	NRTL Division	14 <sup>th</sup> October, 2021 (10.00-13.00 hrs.)	Half day online	12	12
127.	Disaster Management in Chemical Industry	CLI, Mumbai	Major Accident Hazard Control Division	18 <sup>th</sup> October, 2021 (10.00-13.00 hrs.)	Half day online	33	14
128.	Evaluation and Control of Industrial Noise	RLI, Faridabad	Industrial Hygiene Division	18 <sup>th</sup> October, 2021 (14.30 – 17.30 hrs.)	Half day online	02	02
129.	Manual and Material Handling	RLI, Kolkata	Industrial Safety Division	20 <sup>th</sup> October, 2021 (10.00-13.00 hrs.)	Half day online	02	01
130.	Best Practices on Hot Work	RLI, Kolkata	Industrial Safety Division	20 <sup>th</sup> October, 2021 (14.30 – 17.30 hrs.)	Half day online	03	02
131.	Role and Responsibility of Safety Officer	RLI, Faridabad	Industrial Safety Division	21 <sup>st</sup> October, 2021 (10.00-13.00 hrs.)	Half day online	11	11
132.	Safety in work at Height	CLI, Mumbai	Industrial Safety Division	22 <sup>nd</sup> October, 2021 (10.00-13.00 hrs.)	Half day online	16	05
133.	Role of Housekeeping towards ensuring Safety	RLI, Kanpur	Industrial Safety Division	22 <sup>nd</sup> October, 2021 (14.30 – 17.30 hrs.)	Half day online	02	02
134.	Industrial Ventilation	RLI, Faridabad	Industrial Safety Division	25 <sup>th</sup> October, 2021 (10.00-13.00 hrs.)	Half day online	02	02
135.	Safe Operation off Hand and Portable Tools	RLI, Kolkata	Industrial Safety Division	26 <sup>th</sup> October, 2021 (14.30 – 17.30 hrs.)	Half day online	11	02
136.	Safeguarding in Machine	RLI, Shilong	Industrial Safety Division	27 <sup>th</sup> October, 2021 (14.30 – 17.30 hrs.)	Half day online	04	04
137.	PPE - Head protection	CLI, Mumbai	NRTL Division	27 <sup>th</sup> October, 2021 (10.00-13.00 hrs.)	Half day online	03	03
138.	Electrical Safety at Workplaces for Accident Prevention'	RLI, Shilong	Industrial Safety Division	28 <sup>th</sup> October, 2021 (14.30 – 17.30 hrs.)	Half day online	17	16
139.	Promoting Safety and Health	RLI, Kolkata	Industrial Safety Division	28 <sup>th</sup> October, 2021 (14.30 – 17.30 hrs.)	Half day online	06	02
140.	Chemical Safety at Workplace	CLI, Mumbai	Major Accident Hazard Control Division	29 <sup>th</sup> October, 2021 (10.00-13.00 hrs.)	Half day online	32	19
141.	Safe use of Lifting Machines and Lifting Tackles	CLI, Mumbai	Industrial Safety Division	29 <sup>th</sup> October, 2021 (14.30 – 17.30 hrs.)	Half day online	44	09
142.	Onsite Emergency Management in	RLI, Chennai	Industrial Safety	1 <sup>st</sup> November, 2021 (14.30 – 17.30 hrs.)	Half day online	02	02

Sl.No.	Name of Programme	Institute	Division	Date	Duration /Mode	No. of Participants	No. of Organization
	Industries		Division				
143.	Facets of Safety Training in OSH Management	RLI, Chennai	Industrial Safety Division	1 <sup>st</sup> November, 2021 (10.00 – 13.00 hrs.)	Half day online	01	01
144.	Systematic Technique for System Examination and Risk Management	RLI, Faridabad	Industrial Safety Division	2 <sup>nd</sup> November, 2021 (10.00 – 13.00 hrs.)	Half day online	02	02
145.	Principles of Industrial Hygiene	CLI, Mumbai	Industrial Hygiene Division	1 <sup>st</sup> November, 2021 (14.30 – 17.30 hrs.)	Half day online	08	06
146.	Safe Handling of Material in Chemical and Manufacturing Industries	RLI, Faridabad	Industrial Safety Division	8 <sup>th</sup> November, 2021 (10.00 – 13.00 hrs.)	Half day online	02	02
147.	Housekeeping and Cleanliness at Workplaces	RLI, Shilong	Industrial Safety Division	10 <sup>th</sup> November,2021 (14.30 – 17.30 hrs.)	Half day online	04	04
148.	Occupational Safety and Health with Hand Tools and Power Tool	RLI, Shilong	Industrial Safety Division	10 <sup>th</sup> November, 2021 (10.00 – 13.00 hrs.)	Half day online	02	02
149.	Use of PPE for Hazardous Industries	RLI , Kolkata	Industrial Hygiene Division	11 <sup>th</sup> November, 2021 (10.00 – 13.00 hrs.)	Half day online	02	02
150.	Slings and Hoisting Safety	RLI , Kolkata	Industrial Safety Division	12 <sup>th</sup> November, 2021 (10.00 – 13.00 hrs.)	Half day online	12	06
151.	Effective Communication in Industrial Safety	RLI , Kolkata	Industrial Safety Division	12 <sup>th</sup> November, 2021 (10.00 – 13.00 hrs.)	Half day online	03	02
152.	Role of Management in Industrial Safety	RLI , Kolkata	Industrial Safety Division	15 <sup>th</sup> November, 2021 (10.00 – 13.00 hrs.)	Half day online	03	03
153.	Loss Prevention Approaches in Industries	RLI, Chennai	Industrial Safety Division	15 <sup>th</sup> November, 2021 (10.00 – 13.00 hrs.)	Half day online	08	08
154.	Ergonomics Principle and use in Industrial Safety	RLI , Kolkata	Industrial Safety Division	16 <sup>th</sup> November, 2021 (10.00 – 13.00 hrs.)	Half day online	02	02
155.	Occupational Health Hazards and their Prevention at Workplace	CLI, Mumbai	Industrial Medicine Division	16 <sup>th</sup> November, 2021 (14.30 – 17.30 hrs.)	Half day online	01	01
156.	Transport Equipment Safety	RLI , Kolkata	Industrial Safety Division	17 <sup>th</sup> November, 2021 (10.00 – 13.00 hrs.)	Half day online	07	07
157.	Promoting OSH through Worker's Participation	RLI, Faridabad	Industrial Safety Division	17 <sup>th</sup> November, 2021 (14.30 – 17.30 hrs.)	Half day online	01	01
158.	Welding Safety	RLI , Faridabad	Industrial Safety Division	18 <sup>th</sup> November, 2021 (10.00 – 13.00 hrs.)	Half day online	01	01
159.	Qualitative and Quantitative Risk Analysis in Industries	RLI , Chennai	Industrial Safety Division	18 <sup>th</sup> November, 2021 (10.00 – 13.00 hrs.)	Half day online	17	14
160.	Respiratory	CLI, Mumbai	NRTL	18 <sup>th</sup> November, 2021	Half day	12	03

Sl.No.	Name of Programme	Institute	Division	Date	Duration /Mode	No. of Participants	No. of Organization
	Protection in Industry		Division	(14.30 – 17.30 hrs.)	online		
161.	Enhancing Safety Through Employee Participation	RLI, Kolkata	Industrial Safety Division	18 <sup>th</sup> November, 2021 (14.30 – 17.30 hrs.)	Half day online	01	01
162.	Safety Planning in Industries	RLI, Faridabad	Industrial Safety Division	23 <sup>rd</sup> November, 2021 (10.00 – 13.00 hrs.)	Half day online	05	05
163.	Safety in Engineering Industries	RLI, Faridabad	Industrial Safety Division	23 <sup>rd</sup> November, 2021 (14.30 – 17.30 hrs.)	Half day online	02	02
164.	Heat Stress	RLI, Kolkata	Industrial Hygiene Division	23 <sup>rd</sup> November, 2021 (10.00 – 13.00 hrs.)	Half day online	02	01
165.	Recent Updates in Occupational Health Practice for Factory Medical Officers	RLI, Kanpur	Industrial Medicine Division	24 <sup>th</sup> November, 2021 (10.00 – 13.00 hrs.)	Half day online	11	11
166.	Health Issues in Power Tool Operation	RLI, Chennai	Industrial Medicine Division	24 <sup>th</sup> November, 2021 (14.30 – 17.30 hrs.)	Half day online	04	04
167.	Working at Height	CLI, Mumbai	Staff Training/ Productivity Division	25 <sup>th</sup> November, 2021 (14.30 – 17.30 hrs.)	Half day online	08	08
168.	Lock Out/ Tag Out and Toolbox Talk	RLI, Chennai	Industrial Safety Division	25 <sup>th</sup> November, 2021 (10.00 – 13.00 hrs.)	Half day online	11	08
169.	Industrial Hygiene Techniques	CLI, Mumbai	NRTL Division	25 <sup>th</sup> November, 2021 (10.00 – 13.00 hrs.)	Half day online	09	05
170.	Prevention of Occupational Diseases and Injuries in Industries and Ports	RLI, Kanpur	Industrial Medicine Division	25 <sup>th</sup> November, 2021 (10.00 – 13.00 hrs.)	Half day online	07	06
171.	Chemical Risk Reduction Strategies	CLI, Mumbai	Major Accident Hazard Control Division	26 <sup>th</sup> November, 2021 (14.30 – 17.30 hrs.)	Half day online	10	03
172.	Industrial Hazards, Accidents and their Remedial measures at Workplace	CLI, Mumbai	Industrial Safety Division	26 <sup>th</sup> November, 2021 (14.30 – 17.30 hrs.)	Half day online	03	03
173.	She Policy for Industries	RLI, Kolkata	Industrial Safety Division	29 <sup>th</sup> November, 2021 (10.00 – 13.00 hrs.)	Half day online	02	02
174.	Working in Confined Spaces	RLI, Kolkata	Industrial Safety Division	29 <sup>th</sup> November, 2021 (14.30 – 17.30 hrs.)	Half day online	07	07
175.	Statutory Provs on Accident Reporting at Workplace	CLI, Mumbai	Industrial Safety Division	29 <sup>th</sup> November, 2021 (14.30 – 17.30 hrs.)	Half day online	02	02
176.	Control of Industrial Major Accident Hazards Rules	CLI, Mumbai	Major Accident Hazard Control Division	30 <sup>th</sup> November, 2021 (10.00 – 13.00 hrs.)	Half day online	24	13
177.	Theories of Accident Causation and Prevention	RLI, Chennai	Industrial Safety Division	30 <sup>th</sup> November, 2021 (10.00 – 13.00 hrs.)	Half day online	04	04

Sl.No.	Name of Programme	Institute	Division	Date	Duration /Mode	No. of Participants	No. of Organization
178.	Safety in Hand and Portable Power Tools	RLI, Faridabad	Industrial Safety Division	30 <sup>th</sup> November, 2021 (14.30 – 17.30 hrs.)	Half day online	01	01
179.	Types of Hazards in Industries and its Preventive Measures and Notifiable Diseases	RLI, Kolkata	Industrial Safety Division	1 <sup>st</sup> December,2021 (14.30 – 17.30 hrs.)	Half day online	05	05
180.	Safety Management for Chemical Hazards	RLI, Faridabad	Industrial Safety Division	1 <sup>st</sup> December, 2021 (14.30-17.30 hrs.)	Half day online	08	01
181.	Basics of Ergonomics and OHC	RLI, Kolkata	Industrial Medicine Division	3 <sup>rd</sup> December, 2021 (14.30-17.30 hrs.)	Half day online	03	03
182.	Work Procedure and responsibilities of OHC	RLI, Kolkata	Industrial Medicine Division	3 <sup>rd</sup> December, 2021 (10.00 – 13.00 hrs.)	Half day online	04	04
183.	Occupational Lung Diseases and its Preventive Measures	RLI, Kolkata	Industrial Medicine Division	6 <sup>th</sup> December, 2021 (14.30-17.30 hrs.)	Half day online	02	02
184.	Statutory Framework -MAHC	CLI, Mumbai	Major Accident Hazard Control Division	6 <sup>th</sup> December, 2021 (10.00-13.00 hrs.)	Half day online	05	02
185.	Ergonomics	CLI, Mumbai	Industrial Hygiene Division	7 <sup>th</sup> December, 2021 (10.00-13.00 hrs.)	Half day online	06	06
186.	Role of Safety Committee Member for Proper use of PPE	CLI, Mumbai	Industrial Hygiene Division	7 <sup>th</sup> December, 2021 (14.30-17.30 hrs.)	Half day online	03	03
187.	Safety Measure required for Hoist and Lift	DGFASLI Mumbai	FAS	8 <sup>th</sup> December, 2021 (14.30-17.30 hrs.)	Half day online	03	02
188.	Basics of Ergonomics and OHC	RLI, Kolkata	Industrial Medicine Division	8 <sup>th</sup> December, 2021 (10.00-13.00 hrs.)	Half day online	01	01
189.	Safety in Construction Site	RLI, Chennai	Industrial Safety Division	8 <sup>th</sup> December, 2021 (10.00-13.00 hrs.)	Half day online	03	03
190.	Safety Performance Rates in Industries and Ports	RLI, Chennai	Industrial Safety Division	9 <sup>th</sup> December, 2021 (10.00-13.00 hrs.)	Half day online	05	05
191.	Process Safety Management	RLI, Chennai	Industrial Safety Division	9 <sup>th</sup> December, 2021 (14.30-17.30 hrs.)	Half day online	27	18
192.	Prevention and Control of Major Hazards in Factories	CLI, Mumbai	Major Accident Hazard Control Division	10 <sup>th</sup> December, 2021 (14.30-17.30 hrs.)	Half day online	25	07
193.	Safety Terminology	RLI, Chennai	Industrial Safety Division	10 <sup>th</sup> December, 2021 (10.00-13.00 hrs.)	Half day online	06	06
194.	Occupational Exposure to physical hazard-Noise and its assessment in	RLI, Chennai	Industrial Hygiene Division	10 <sup>th</sup> December, 2021 (14.30-17.30 hrs.)	Half day online	11	04

Sl.No.	Name of Programme	Institute	Division	Date	Duration /Mode	No. of Participants	No. of Organization
	Industries						
195.	Gas and Vapours Exposure in Industry	CLI, Mumbai	Industrial Hygiene Division	13 <sup>th</sup> December, 2021 (14.30-17.30 hrs.)	Half day online	03	03
196.	Identification of Occupational Hazards at Workplaces	RLI, Chennai	Industrial Hygiene Division	13 <sup>th</sup> December, 2021 (14.30-17.30 hrs.)	Half day online	15	09
197.	Risk Assessment of Hazards in Industries	CLI, Mumbai	Industrial Hygiene Division	14 <sup>th</sup> December, 2021 (10.00-13.00 hrs.)	Half day online	04	04
198.	Noise and its Impact on workers	RLI, Kolkata	Industrial Hygiene Division	14 <sup>th</sup> December, 2021 (10.00-13.00 hrs.)	Half day online	02	01
199.	Hazard Identification and Risk Assessment for MAH Industries	CLI, Mumbai	Major Accident Hazard Control Division	14 <sup>th</sup> December, 2021 (14.30-17.30 hrs.)	Half day online	12	04
200.	Permit to work System in Factories	RLI, Kanpur	Industrial Safety Division	15 <sup>th</sup> December, 2021 (14.30-17.30 hrs.)	Half day online	03	03
201.	Safety with Storage of Materials	RLI, Faridabad	Industrial Safety Division	15 <sup>th</sup> December, 2021 (10.00-13.00 hrs.)	Half day online	28	12
202.	Confined Space Safety	DGFASLI Mumbai	FAS Division	15 <sup>th</sup> December, 2021 (10.00-13.00 hrs.)	Half day online	06	05
203.	Safety and Health with Hot work	RLI, Chennai	Industrial Safety Division	16 <sup>th</sup> December, 2021 (14.30-17.30 hrs.)	Half day online	02	02
204.	Medical Surveillance for Prevention of Occupational Diseases	RLI, Kanpur	Industrial Medicine Division	15 <sup>th</sup> December, 2021 (10.00-13.00 hrs.)	Half day online	07	05
205.	Safety Management System	RLI, Chennai	Industrial Safety Division	15 <sup>th</sup> December, 2021 (14.30-17.30 hrs.)	Half day online	03	03
206.	Safety Engineering	RLI, Kanpur	Industrial Safety Division	17 <sup>th</sup> December, 2021 (14.30-17.30 hrs.)	Half day online	02	02
207.	Industrial Safety in Factories and Dock Workers	RLI, Chennai	Industrial Safety Division	20 <sup>th</sup> December, 2021 (14.30-17.30 hrs.)	Half day online	01	01
208.	Safe Work Practices in Industries	RLI, Faridabad	Industrial Safety Division	20 <sup>th</sup> December, 2021 (10.00-13.00 hrs.)	Half day online	01	01
209.	Role and Functions of Safety Committees	RLI, Faridabad	Industrial Safety Division	20 <sup>th</sup> December, 2021 (14.30-17.30 hrs.)	Half day online	25	06
210.	Heavy Metal Poisoning	RLI, Kanpur	Industrial Medicine Division	21 <sup>st</sup> December, 2021 (14.30-17.30 hrs.)	Half day online	04	04
211.	Physical Stress on Workers	RLI, Kolkata	Industrial Hygiene Division	21 <sup>st</sup> December, 2021 (10.00-13.00 hrs.)	Half day online	01	01
212.	OSHE in Hazardous Factories	CLI, Mumbai	Industrial Safety Division	21 <sup>st</sup> December, 2021 (14.30-17.30 hrs.)	Half day online	01	01
213.	Chemical Hazard and PLE	RLI, Chennai	Industrial Hygiene Division	22 <sup>nd</sup> December, 2021 (10.00-13.00 hrs.)	Half day online	11	07

Sl.No.	Name of Programme	Institute	Division	Date	Duration /Mode	No. of Participants	No. of Organization
214.	Safety in use of Machine Tools	CLI, Mumbai	Industrial Safety Division	22 <sup>nd</sup> December, 2021 (14.30-17.30 hrs.)	Half day online	02	01
215.	Risk Assessment in Factories	RLI, Faridabad	Industrial Safety Division	22 <sup>nd</sup> December, 2021 (14.30-17.30 hrs.)	Half day online	05	05
216.	Industrial Lighting and Illumination	RLI, Kolkata	Industrial Hygiene Division	22 <sup>nd</sup> December, 2021 (10.00-13.00 hrs.)	Half day online	05	04
217.	Occupational Hazards and Non-Respiratory PPEs	RLI, Chennai	Industrial Hygiene Division	23 <sup>rd</sup> December, 2021 (10.00-13.00 hrs.)	Half day online	11	07
218.	OSH during Hot Working	RLI, Faridabad	Industrial Safety Division	23 <sup>rd</sup> December, 2021 (14.30-17.30 hrs.)	Half day online	04	03
219.	Safety Management System	CLI, Mumbai	Industrial Safety Division	23 <sup>rd</sup> December, 2021 (14.30-17.30 hrs.)	Half day online	01	01
220.	Motivation and Industrial Safety	RLI, Chennai	Industrial Safety Division	24 <sup>th</sup> December, 2021 (10.00-13.00 hrs.)	Half day online	03	03
221.	Work Permit System in Factories	RLI, Kolkata	Industrial Hygiene Division	24 <sup>th</sup> December, 2021 (14.30-17.30 hrs.)	Half day online	07	07
222.	Investigation of Accidents and Dangerous Occurrences	RLI, Kolkata	Industrial Safety Division	27 <sup>th</sup> December, 2021 (10.00-13.00 hrs.)	Half day online	07	07
223.	Pld equipment Safety Appraisal and Control Techniques	RLI, Kolkata	Industrial Safety Division	27 <sup>th</sup> December, 2021 (14.30-17.30 hrs.)	Half day online	03	03
224.	Loss Prevention in Factories	RLI, Kolkata	Industrial Safety Division	27 <sup>th</sup> December, 2021 (14.30-17.30 hrs.)	Half day online	02	02
225.	Safety with EOT Cranes and Lifts Tackles	RLI, Faridabad	Industrial Safety Division	28 <sup>th</sup> December, 2021 (14.30-17.30 hrs.)	Half day online	09	08
226.	Construction Safety	RLI, Chennai	Industrial Safety Division	28 <sup>th</sup> December, 2021 (10.00-13.00 hrs.)	Half day online	01	01
227.	Employees Participation for reducing Industrial Accidents	CLI, Mumbai	Staff Training/ Productivity Division	28 <sup>th</sup> December, 2021 (10.00-13.00 hrs.)	Half day online	02	01
228.	Safety in Cranes	RLI, Kolkata	Industrial Safety Division	29 <sup>th</sup> December, 2021 (10.00-13.00 hrs.)	Half day online	07	07
229.	Prevention and Control of Notifiable Occupational Diseases in Factories	RLI, Chennai	Industrial Safety Division	29 <sup>th</sup> December, 2021 (14.30-17.30 hrs.)	Half day online	07	04
230.	Safety, Health and Environment for Safety Officers	CLI, Mumbai	Industrial Safety Division	29 <sup>th</sup> December, 2021 (10.00-13.00 hrs.)	Half day online	08	06
231.	Safety Measures with Pressure Plant and Vessels	DGFASLI Mumbai	FAS Division	30 <sup>th</sup> December, 2021 (10.00-13.00 hrs)	Half day online	06	06

Sl.No.	Name of Programme	Institute	Division	Date	Duration /Mode	No. of Participants	No. of Organization
232.	Role of Safety Health and Environment to improve Productivity and Quality	CLI, Mumbai	Staff Training/ Productivity Division	30 <sup>th</sup> December, 2021 (10.00-13.00 hrs.)	Half day online	01	01
233.	Workplace Safety and Health	RLI, Chennai	Industrial Safety Division	30 <sup>th</sup> December, 2021 (14.30-17.30 hrs.)	Half day online	01	01
234.	Prevention and Control of Occupational Diseases	CLI, Mumbai	Industrial Medicine Division	31 <sup>st</sup> December, 2021 (14.30-17.30 hrs.)	Half day online	01	01
235.	Behavior based Safety	CLI, Mumbai	Staff Training/ Productivity Division	31 <sup>st</sup> December, 2021 (10.00-13.00 hrs.)	Half day online	05	03

For any queries or information, please write to [cli-training@dghsli.nic.in](mailto:cli-training@dghsli.nic.in)

## 13.0 FORTHCOMING EVENTS ON OSH

### Forthcoming International Events on OSH (January- June, 2022)

S.No.	Name	Date	Place	Sponsored Organisation	Contact Detail
1.	Mid-Oregon Construction Safety Summit	24 <sup>th</sup> -25 <sup>th</sup> Jan, 2022	Bend	National Safety Council, Northern New England	<a href="https://osha.oregon.gov">https://osha.oregon.gov</a>
2.	ICOSRCOS 2022- International Conference on Occupational Safety, Risks in Construction and Occupational Safety	28 <sup>th</sup> -29 <sup>th</sup> Jan, 2022	Digital Mode	World Academy of Science, Engineering and Technology (Waset)	<a href="https://waset.org">https://waset.org</a>
3.	ICOH 2022- 33 <sup>rd</sup> International Congress on Occupational Health	6 <sup>th</sup> -10 <sup>th</sup> Feb, 2022	Virtual	International Commission on Occupational Health(ICOH)	<a href="https://icoh2022.net">https://icoh2022.net</a>
4.	ICOSRCSM 2022- International Conference on Occupational Safety, Risks in Construction and Safety Management	7 <sup>th</sup> -8 <sup>th</sup> Feb, 2022	Digital Mode	World Academy of Science, Engineering and Technology (Waset)	<a href="https://waset.org">https://waset.org</a>
5.	World Summit on Occupational Health and Public Safety	9 <sup>th</sup> -10 <sup>th</sup> Feb, 2022	Paris, France	Conference Series LLC Ltd, London	<a href="https://www.conferecneseries.com">https://www.conferecneseries.com</a>
6.	ICTOH 2022- International Conference on Toxic and Occupational Health	11 <sup>th</sup> -12 <sup>th</sup> Feb, 2022	Digital Mode	World Academy of Science, Engineering and Technology (Waset)	<a href="https://waset.org">https://waset.org</a>
7.	ICOOH 2022- International Conference on Occupation and Occupational Health	22 <sup>nd</sup> -23 <sup>rd</sup> Feb, 2022	Digital Mode	World Academy of Science, Engineering and Technology (Waset)	<a href="https://waset.org">https://waset.org</a>
8.	ICOTIH 2022- International Conference on Occupational Toxicology and Industrial Health	25 <sup>th</sup> -26 <sup>th</sup> Feb, 2022	Digital Mode	World Academy of Science, Engineering and Technology (Waset)	<a href="https://waset.org">https://waset.org</a>
9.	ICWOH 2022- International Conference on Work and Occupational Health	25 <sup>th</sup> -26 <sup>th</sup> Feb, 2022	Digital Mode	World Academy of Science, Engineering and Technology (Waset)	<a href="https://waset.org">https://waset.org</a>
10.	ICOESH 2022- International Conference on Occupational Ergonomics,	3 <sup>th</sup> -4 <sup>th</sup> Mar, 2022	Digital Mode	World Academy of Science, Engineering and Technology (Waset)	<a href="https://waset.org">https://waset.org</a>



S.No.	Name	Date	Place	Sponsored Organisation	Contact Detail
	Safety and Health				
11.	ICOTIH 2022-International Conference on Occupational Toxicology and Industrial Health	4 <sup>th</sup> -5 <sup>th</sup> March 2022	Digital Mode	World Academy of Science, Engineering and Technology (Waset)	<a href="https://waset.org">https://waset.org</a>
12.	Cascade Occupational Safety & Health Conference	7 <sup>th</sup> -8 <sup>th</sup> Mar, 2022	Eugene	National Safety Council, Northern New England	<a href="https://osha.oregon.gov">https://osha.oregon.gov</a>
13.	ICIPSPOS 2022-International Conference on Injury Prevention, Safety Promotion and Occupational Safety	21 <sup>st</sup> -22 <sup>nd</sup> Mar, 2022	Digital Mode	World Academy of Science, Engineering and Technology (Waset)	<a href="https://waset.org">https://waset.org</a>
14.	2 <sup>nd</sup> Annual Southeastern Leadership Conference on Safety, Health + Sustainability	30 <sup>th</sup> Mar- 1 <sup>st</sup> April, 2022	Disney's Contemporary Resort, Orlando	Florida Chamber Safety Council	<a href="https://www.flchambersafety.com">https://www.flchambersafety.com</a>
15.	ICOSHW 2022-International Conference on Occupational Safety and Health at Workplace	25 <sup>th</sup> -26 <sup>th</sup> April, 2022	Digital Mode	World Academy of Science, Engineering and Technology (Waset)	<a href="https://waset.org">https://waset.org</a>
16.	Health and Safety at Work International Festival	4 <sup>th</sup> -6 <sup>th</sup> May, 2022	Palazzo Ducale di Urbino, Italy and Virtual	The Rubes Trivia Foundation together with the University of Urbino and in collaboration with INAIL, Italy	<a href="https://osha.europa.eu">https://osha.europa.eu</a>
17.	ICOHSAOD 2022-International Conference on Occupational Health and Safety in Agriculture and Occupational Diseases	5 <sup>th</sup> -6 <sup>th</sup> May, 2022	Digital Mode	World Academy of Science, Engineering and Technology (Waset)	<a href="https://waset.org">https://waset.org</a>
18.	2022 National Occupational & Process Safety Conference & Exhibition	10 <sup>th</sup> -12 <sup>th</sup> May, 2022	Grand Hyatt San Antonio, United States	American Fuel & Petrochemical Manufacturers (AFPM), Washington	<a href="https://www.afpm.org">https://www.afpm.org</a>
19.	Vision Zero Japan Summit 2022	11 <sup>th</sup> -13 <sup>th</sup> May, 2022	Virtual	International ORP Foundation	<a href="https://japan.visionzerosummits.com">https://japan.visionzerosummits.com</a>
20.	The Vision Zero Safety Future Congress	16 <sup>th</sup> -18 <sup>th</sup> May, 2022	Lloret de Mar, Spain	ETALON Association	<a href="https://osha.europa.eu/en/oshevents">https://osha.europa.eu/en/oshevents</a>

## LIST OF OFFICES OF INSPECTORATE DOCK SAFETY (IDS)

Sl. No.	Inspectorate Dock Safety office address	Office Tel. / Fax No. and email ID
1.	Chief Inspectorate Dock Safety, Mumbai N.S. Mankikar Marg, Sion, Mumbai - 400022	Office Tel.: 022-24060609 022-24074358 Email : docks@dglasli.nic.in
2.	Inspectorate Dock Safety, Mumbai MbPT OSC Bldg., 3 <sup>rd</sup> Floor, Opp GPO, P. D'Mello Road, Mumbai- 400038	Office Tel.: 022 – 22692180 66565511/58 Fax: 022-22613391 Email : idsmumbai@dglasli.nic.in
3.	Inspectorate Dock Safety, Kandla Near Bunder Gate, Kandla Port, New Kandla, Post Box No.18,Dist Kutch, Pin – 370210, Gujarat.	Office Tel.: 02836 - 270249 Fax: 02836 - 270249 Email : idskandla@dglasli.nic.in
4.	Inspectorate Dock Safety, Mormugao Civil Maintenance Office Building Mormugao Port Trust, Headland Sada, Mormugao, Goa- 403804.	Office Tel.: 0832-2520752 Fax: 0832 – 2520752 Email : idsmormugao@dglasli.nic.in
5.	Inspectorate Dock Safety, Kolkata Nizam Palace, 1 <sup>st</sup> floor, 2 <sup>nd</sup> M.S.O. Bldg. 234/4 A.J.C. Bose Road, Kolkata-700020.	Office Tel.: 033-2830718/22830719 Fax: 033-22830718 Email : idskolkata@dglasli.nic.in
6.	Inspectorate Dock Safety, Paradip Badapadia, Post Box NO.126 Paradip – 754142, Orissa.	Office Tel.: 06722-222413 Fax: 06722- 222413 Email : idsparadip@dglasli.nic.in
7.	Inspectorate Dock Safety, Visakhapatnam Ex. D.L.B. Bldg., 5 <sup>th</sup> Floor, Visakhapatnam Port Area, Visakhapatnam-530 035.	Office Tel.: 0891-2563857 Fax no. : 0891-2563857 Email : idsvizag@dglasli.nic.in
8.	Inspectorate Dock Safety, Chennai 3 <sup>rd</sup> Floor, Anchor Gate Bldg., Rajaji Salai, Chennai – 600 001.	Office Tel.: 044- 25220888, 25246419 Fax: 044-25220888 Email : idschennai@dglasli.nic.in
9	Inspectorate Dock Safety, Tuticorin Tuticorin Port Trust, Admin. Office Bldg. Harbour Estate, Tuticorin – 628004.	Office Tel.:0461-2352372 Fax: 0461- 2352372 Email : idstuticorin@dglasli.nic.in
10.	Inspectorate Dock Safety, Kochi C.D.L.B. Dispensary Bldg., G.V.Ayyar Road, Willington Island, Cochin – 682 003.	Office Tel.: 0484-2666532 Fax: 0484-2666532 Email : ids.cochin@dglasli.nic.in
11.	Inspectorate Dock Safety, New Mangalore New Mangalore Port, Panambur, New Mangalore – 575010.	Office Tel.: 0824-2407781 Fax: 0824- 2407781 E-mail : idsmangalore@dglasli.nic.in
12.	Inspectorate Dock Safety, Navi Mumbai Jawaharlal Nehru Port Trust, P.O.C. Canteen Bldg., Ground Floor, Sheva, Navi Mumbai – 400 707.	Office Tel.: 022-24060552 Fax: 022-22623391 Email : idsjnpt@dglasli.nic.in

# LOCATION MAP OF DGFASLI ORGANIZATION



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